

FT	Region	/note= "Antigenic region"
FT		171..178
XX		/note= "Antigenic region"
PN	US6365369-B1.	
PD	02-APR-2002.	
PP	30-MAR-1999;	99US-00280839.
PR	01-APR-1998;	98US-0080311P.
PR	07-ABR-1998;	98US-0080898P.
PA	(HUMA-) HUMAN GENOME SCI INC.	
XX	Endress GA,	Rosen CA;
P1	WPI; 2002-433426/46.	
DR	N-PSDB; ABK52026.	
XX		
PT	Novel isolated polynucleotide encoding prostate specific secreted protein, useful for treating or detecting lymphopenia, anemia, thrombocytopenia, neoplasms, septic shock, multiple sclerosis, Alzheimer's disease.	
PS	Claim 1; Fig 1; 53pp; English.	
XX		
CC	The present invention relates to a new polynucleotide encoding residues 2 or 1-178 of a 178 amino acid prostate specific secreted protein (PSSP)	
CC	polypeptide sequence. The invention is useful as a diagnostic or prognostic marker since increased or decreased expression of the gene in the affected individuals is indicative of specific disorders. PSSP is found expressed primarily in prostate, but also in salivary gland, stomach and trachea. PSSP polynucleotides are useful in treating deficiencies or disorders of the immune system, by activating or inhibiting the proliferation, differentiation, or mobilization (chemotaxis) of immune cells. PSSP polynucleotides can be used as a marker or detector of a particular immune system disease or disorder.	
CC	PSSP polynucleotides or polypeptides may be useful in modulating haemostatic or thrombolytic activity and treating or detecting deficiencies or disorders of haematopoietic cells, blood coagulation disorders, thrombocytopenia, wound healing, inflammation, infection, head trauma, heart attacks (infarction), hyperproliferative disorder, strokes, bacterial or fungal agents, parasitic agents, scarring, tissue regeneration, spinal cord disorder, autoimmune disorder, Alzheimer's disease, anaphylaxis, Parkinson's disease, hypersensitivity to an antigenic molecule, blood group incompatibility, organ rejection and graft-versus-host disease (GVHD). PSSP polynucleotides or polypeptides may have chemotaxis activity. PSSP polypeptides or polynucleotides may also increase or decrease the differentiation or proliferation of embryonic stem cells. The present amino acid sequence represents the human prostate specific secreted protein (PSSP) of the invention	
XX		
SO	Sequence 178 AA:	
	Query Match	100.0%; Score 936; DB 5; Length 178;
	Best Local Similarity	100.0%; Pred. No. 4e-92;
	Matches 178; Conservative	100 0; Mismatches 0; Indels 0; Gaps 0
Oy	→	
Dd	1 MHRPEAMLLLTALGGPTWAGKKYRGCGGKYESTTEYDHETIGLRVSGLLVKSQV 60	
Oy	1 MHRPEAMLLLTALGGPTWAGKKYRGCGGKYESTTEYDHETIGLRVSGLLVKSQV 60	
Dd	61 VKLGSMDVVKLGALGNTOEVLQGEYITTKFVAFOAFLRGVMWNTSDRFYFGKLDG 120	
Oy	61 VKLGSMDVVKLGALGNTOEVLQGEYITTKFVAFOAFLRGVMWNTSDRFYFGKLDG 120	
Dd	121 QISSAYPSQEGQVILVGIVGYQLGIKISIGFEWNPPLBEPPTTPPVNLTYSANSPVGR 178	
Oy	121 QISSAYPSQEGQVILVGIVGYQLGIKISIGFEWNPPLBEPPTTPPVNLTYSANSPVGR 178	
Dd	121 QISSAYPSQEGQVILVGIVGYQLGIKISIGFEWNPPLBEPPTTPPVNLTYSANSPVGR 178	

ID		ADCC3408		standard; protein; 178 AA.
XX		ADC3408		
AC		ADC3408;		
XX				
XX		18-DEC-2003	(first entry)	
D7				
XX				
DE				
XK		Human prostate specific secreted protein (PSSP).		
KW		human; prostate specific secreted protein; PSSP; androgen regulation; prostate cancer; gene therapy; Digeorge's syndrome; autoimmune disease; rheumatoid arthritis; nephritis; septic shock; hyperproliferative disorder; Alzheimer's; Parkinson's; immunosuppressive; antirheumatic; nootropic; neuroprotective; cyostatic.		
XX		Homo sapiens.		
OS				
PX		<u>US2003050443-A1.</u>		
PN				
FD		13-MAR-2003.		
XX				
PF		25-JAN-2002; 2002US-00054976.		
PR		01-APR-1998; 98US-0080311P. 07-APR-1998; 98US-0080898P. 30-MAR-1999; 99US-00280839.		
PR				
XX		(HUMA-) HUMAN GENOME SCI INC.		
PA				
XX				
P1		<u>Endress GA,</u> Rosen CA;		
DR		WI; 2003-615803/58.		
XX				
PT		Noel isolated human prostate specific secreted protein and polynucleotide encoding the protein, useful for preventing, treating or ameliorating a medical condition, and for diagnosing a pathological condition.		
PS				
FT		Claim 11; Fig 1; 58pp; English.		
XX		This invention relates to a novel isolated human prostate specific secreted protein (PSSP). Specifically it refers to vectors, host cells, antibodies, screening methods and recombinant methods for producing the polynucleotides and encoded proteins thereof. PSSP is a gene involved in androgen regulation, and therefore is thought to have a role in both normal prostate development and prostate cancer, which is associated with loss of androgen responsiveness. Accordingly, the present invention provides diagnostic methods for detecting such disorders, as well as using gene therapy to treat immune system disorders including Digeorge's syndrome, autoimmune diseases such as rheumatoid arthritis, inflammatory conditions such as nephritis and septic shock, hyperproliferative disorders for example cancer, as well as Alzheimer's and Parkinson's. As such, PSSP can be described variously as immunosuppressive, antiinematic, nootropic, neuroprotective and cytostatic. This polypeptide sequence is the human PSSP of the invention.		
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
CC				
SQ		Sequence 178 AA:		
Query Match	100.0%; Score 936; DB 7; Length 178;			
Best Local Similarity	100.0%; Pred. No. 4e-92;			
Matches 178; Conservative	0; Mismatches 0; Indels 0; Gaps 0			
OY		1 MHREBAMLLLTALLGGPTAGRWGPGGSKYSTEDVDHEITGLRVSGILLVKSQV	60	
Dd		1 MHRERAMLILTLALIGSPTTAGNGRGGRKYSTTBDDYHEITGLRVSGILLVKSQV	60	
OY		61 VKLGDSMDVKRLGALGNTEVTLPGEYITRYFVAFOFLRGVVMTYSKDRIFFYGKLDD	120	
Dd		61 VKLGDSDMVKRLGALGNTEVTLPGEYITRKVFADFQLRGVVMTYSKDRIFFGKLDG	120	
OY		121 QISASAYSQEQGVAVGIYGOVLGIGIKSIGENMYPLEEPPTPEPVNLITYSNSVGVR	178	
Dd		121 QISSAAYSQEQQVAVGIYGOVLGIGIKSIGENMYPLEEPPTEPVNLIYTNSNFVGR	178	

RESULT 3
ID AAM77404 standard; protein; 178 AA.
AC AAM77404;
XX
DT 21-JAN-1999 (first entry)
XX
DE Secreted salivary polypeptide zsisg32.
XX
KW Secreted salivary polypeptide; zsisg32; salivary gland; human; KW mucous associated; digestive dysfunction; wound healing dysfunction; KW salivary gland carcinoma; sarcoidosis; pneumocystic carinii; emphysema; KW chronic bronchitis; cystic fibrosis; tumour; xerostomia; KW adult respiratory distress syndrome; ARDS; dental caries; osteomyelitis; KW sudden infant death syndrome; SIDS; oral candidiasis; prostate carcinoma KM gillraiae; buccal mucosa infection; Sjogren's syndrome; mumps. XX Homo sapiens.
OS
XX
FH Key Location/Qualifiers
FT Peptide 1..22 /note= "signal peptide"
FT Protein 23..281
FT Modified-site /note= "mature protein" 35
FT Modified-site /note= "potential casein kinase II phosphorylation site" 36
FT Modified-site /note= "potential casein kinase II phosphorylation site" 40
FT Modified-site /note= "potential tyrosine sulfation site" 46
FT Modified-site /note= "potential N-myristoylation site" 63..65
FT Region /note= "adhesion motif" 72
FT Modified-site /note= "potential N-myristoylation site" 107
FT Modified-site /note= "potential casein kinase II phosphorylation site" 107
FT Modified-site /note= "potential protein kinase C phosphorylation site" 120
FT Modified-site /note= "potential N-myristoylation site" 155
FT Modified-site /note= "potential tyrosine sulfation site" 167
FT Modified-site /note= "potential N-glycosylation site"
XX W09841628-A1.
PN
XX
PD 24-SEP-1998.
XX
PF 18-MAR-1998; 98MO-US005255.
XX
PR 19-MAR-1997; 97US-0041263P.
PA (ZYMO) ZYMOGENETICS INC.
XX
PI Shepard PO;
P1 WPI: 1998-531567/45.
DR N-PSSDB; AAVS9397.
XX
PT New isolated mucous-associated polypeptide, zsisg32 - used to develop PT products for treating e.g. digestive or lung dysfunction, microbial PT infections, cystic fibrosis, inflammation or tumour metastasis.
XX
PS Claim 1; Page 91-92; 118pp; English.
XX
CC The present sequence represents secreted salivary polypeptide designated CC zsisg32. The protein is involved in salivary gland and mucous associated

	CC	functions. The products can be used in the treatment of e.g. digestive dysfunction, wound healing dysfunction, inadequate saliva production or composition, mucosal integrity breakdown, failure or diminished antimicrobial function, salivary gland carcinoma, sarcoidosis, pneumocystic carinii (particularly as associated with AIDS patients), emphysema, chronic bronchitis, cystic fibrosis, adult respiratory distress syndrome (ARDS), sudden infant death syndrome (SIDS), lung diseases, tumour metastasis, xerostomia, dental caries, osteomyelitis, oral candidiasis, buccal mucosa infections, chronic inflammation (Stjogren's syndrome), mumps, prostate carcinoma or migraine
SO	XX	Sequence 178 AA:
OY	XX	Query Match 99.7%; Score 933; DB 2; Length 178; Best Local Similarity 99.4%; Pred. No. 8,4e-92;
Db	XX	Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
OY	XX	1 MHREPAALLLTLLTALLGAPTWAGKMYGPGGGKPYSTTEDVDHEITGLRVSVGLLYKSQV 60 1 MHREPAALLLTLLTALLGAPTWAGKMYGPGGGKPYSTTEDVDHEITGLRVSVGLLYKSQV 60
Db	XX	61 VKLGDSDVVKLGALGENTOEVTLOPGEYITKVFAVAFLRGVMYTSKDRIFFYGKLDD 120 61 VKLGDSDVVKLGALGNTQEVTLTPGEYITKVFAVAFLRGVMYTSKDRIFFYGKLDD 120
OY	XX	121 QISSAYPSQSGQVLVGIVGYOYLGIKISIGHEWNYPLPEEPTTEPNVILITSANSPVGR 178 121 QISSAYPSQSGQVLVGIVGYOYLGIKISIGHEWNYPLPEEPTTEPNVILITSANSPVGR 178
Db	XX	121 QISSAYPSQSGQVLVGIVGYOYLGIKISIGHEWNYPLPEEPTTEPNVILITSANSPVGR 178
ID	XX	RESULT 4 AA999451 AA999451 standard; protein; 178 AA.
XX	AC	AA999451;
XX	DT	08-AUG-2000 (first entry)
DE	XX	Human PRO156 (UNQ773) amino acid sequence SEQ ID NO:383.
KW	XX	Human: PRO polypeptide; membrane bound protein; receptor; diagnosis; transmembrane; secretion; immunoadhesion; pharmaceutical; screening.
XX	OS	Homo sapiens.
XX	PN	WO200012708-A2.
PD	XX	09-MAR-2000.
XX	PF	01-SEP-1999; 99MO-USO20111.
XX	PR	01-SEP-1998; 98US-0098716P. 01-SEP-1998; 98US-0098749P. 01-SEP-1998; 98US-0098750P. 02-SEP-1998; 98US-0098803P. 02-SEP-1998; 98US-0098821P. 02-SEP-1998; 98US-0098843P. 09-SEP-1998; 98US-0099536P. 09-SEP-1998; 98US-0099586P. 09-SEP-1998; 98US-0099598P. 09-SEP-1998; 98US-0099602P. 09-SEP-1998; 98US-0099642P. 10-SEP-1998; 98US-0099741P. 10-SEP-1998; 98US-0099754P. 10-SEP-1998; 98US-0099753P. 10-SEP-1998; 98US-0099752P. 10-SEP-1998; 98US-0099808P. 10-SEP-1998; 98US-0099812P. 10-SEP-1998; 98US-0099815P. 10-SEP-1998; 98US-0099816P. 15-SEP-1998; 98US-0100385P. 15-SEP-1998; 98US-0100388P. 15-SEP-1998; 98US-0100390P.

PR 16-SEP-1998; 98US-0100584P.
PR 16-SEP-1998; 98US-0100627P.
PR 16-SEP-1998; 98US-0100661P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100710P.
PR 17-SEP-1998; 98US-0100711P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100848P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 18-SEP-1998; 98US-0101071P.
PR 22-SEP-1998; 98US-0101279P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101474P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101476P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101741P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101915P.
PR 24-SEP-1998; 98US-0101916P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102307P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102484P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0103314P.
PR 07-OCT-1998; 98US-0103315P.
PR 07-OCT-1998; 98US-0103328P.
PR 07-OCT-1998; 98US-0103395P.
PR 07-OCT-1998; 98US-0103396P.
PR 07-OCT-1998; 98US-0103401P.
PR 08-OCT-1998; 98US-0103633P.
PR 08-OCT-1998; 98US-0103678P.
PR 08-OCT-1998; 98US-0103679P.
PR 08-OCT-1998; 98US-0103711P.
PR 14-OCT-1998; 98US-0104257P.
PR 20-OCT-1998; 98US-0104987P.
PR 20-OCT-1998; 98US-0105000P.
PR 20-OCT-1998; 98US-0105002P.
PR 21-OCT-1998; 98US-0105104P.
PR 22-OCT-1998; 98US-0105169P.
PR 22-OCT-1998; 98US-0105266P.
PR 26-OCT-1998; 98US-0105267P.
PR 26-OCT-1998; 98US-0105694P.
PR 26-OCT-1998; 98US-0105697P.
PR 27-OCT-1998; 98US-0105881P.
PR 27-OCT-1998; 98US-0105882P.
PR 27-OCT-1998; 98US-0106062P.
PR 28-OCT-1998; 98US-0106023P.
PR 28-OCT-1998; 98US-0106029P.
PR 28-OCT-1998; 98US-0106030P.
PR 28-OCT-1998; 98US-0106032P.
PR 28-OCT-1998; 98US-0106033P.
PR 28-OCT-1998; 98US-0106178P.
PR 29-OCT-1998; 98US-0106248P.

PR 29-OCT-1998; 98US-0106384P.
PR 30-OCT-1998; 98US-0108500P.
PR 30-OCT-1998; 98US-0106464P.
PR 03-NOV-1998; 98US-0106856P.
PR 03-NOV-1998; 98US-0106902P.
PR 03-NOV-1998; 98US-0106905P.
PR 03-NOV-1998; 98US-0106932P.
PR 03-NOV-1998; 98US-0106939P.
PR 03-NOV-1998; 98US-0106934P.
PR 10-NOV-1998; 98US-0107783P.
PR 17-NOV-1998; 98US-0108775P.
PR 17-NOV-1998; 98US-0108779P.
PR 17-NOV-1998; 98US-0108787P.
PR 17-NOV-1998; 98US-0108788P.
PR 17-NOV-1998; 98US-0108801P.
PR 17-NOV-1998; 98US-0108802P.
PR 17-NOV-1998; 98US-0108806P.
PR 17-NOV-1998; 98US-0108807P.
PR 17-NOV-1998; 98US-0108867P.
PR 17-NOV-1998; 98US-0108925P.
PR 18-NOV-1998; 98US-0108848P.
PR 18-NOV-1998; 98US-0108849P.
PR 18-NOV-1998; 98US-0108850P.
PR 18-NOV-1998; 98US-0108851P.
PR 18-NOV-1998; 98US-0108852P.
PR 18-NOV-1998; 98US-0108858P.
PR 18-NOV-1998; 98US-0108904P.
PA (GENENTECH INC.
XX Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;
PI WPI: 2000-237871/20.
XX N-PSDB; AAA37133.
DR New mammalian DNA sequences encoding transmembrane, receptor or secreted
XX PRO polypeptides, useful for screening of potential peptide or small
XX molecule inhibitors of the relevant receptor/ligand interactions.
PS Claim 12; Fig 224; 773BP; English.
XX AAA37022 to AAA37144 encode the new isolated human transmembrane,
XX receptor or secreted PRO polypeptides given in AA99340 to AA99462. The
XX transmembrane and receptor PRO proteins can be used for screening of
XX potential peptide or small molecule inhibitors of the relevant
XX receptor/ligand interactions. The polypeptides and nucleotide sequences
XX encoding them have various industrial applications, including uses as
XX pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent
XX primers and hybridization probes used in the isolation of the PRO
XX polypeptides from the present invention
SQ Sequence 178 AA;
Query Match 99.7%; Score 933; DB 3; Length 178;
Best Local Similarity 99.4%; Pred. No. 8.4e-92;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MHRPAMLLLTLLALGGPTWAGKMYGGGKYSTTEDYDHETGRLVSGLLVSVQ 60
DB 1 MHRPAMLLLTLLALGGPTWAGKMYGGGKYSTTEDYDHETGRLVSGLLVSVQ 60
QY 61 VKLGDSPWVKLGALGAGNTQEVTLQGEYITVFAFAFLRGVVMYTSKDRFFYFGKLDG 120
DB 61 VKLGDSPWVKLGALGAGNTQEVTLQGEYITVFAFAFLRGVVMYTSKDRFFYFGKLDG 120
QY 121 QISSAYPSQEGQVTVIGIYQYQVLLGKISIGFEMWYPLEEPTTPEPVNLTYGANSFVGR 178
DB 121 QISSAYPSQEGQVTVIGIYQYQVLLGKISIGFEMWYPLEEPTTPEPVNLTYGANSFVGR 178
RESULT 5
AAB66200
ID AAB66200 standard; protein; 178 AA.

```

XX AA066200;
AC
XX 02-APR-2001 (first entry)
DT
XX Protein of the invention #112.
DE
XX Secreted; transmembrane; gene therapy.
KW
OS Unidentified.
XX WO200078961-A1.
XX PD 28-DEC-2000.
XX PF 18-FEB-2000; 2000WO-US004342.
XX PR 23-JUN-1999; 99US-0141037P.
XX PR 20-JUL-1999; 99US-0144758P.
XX PR 26-JUL-1999; 99US-0145698P.
XX PR 01-SEP-1999; 99WO-US020111.
XX PR 29-OCT-1999; 99US-0162506P.
XX PR 30-NOV-1999; 99WO-US028313.
XX PR 02-DEC-1999; 99WO-US028551.
XX PR 16-DEC-1999; 99WO-US030035.
XX PR 05-JAN-2000; 2000WO-US000219.
XX PR 06-JAN-2000; 2000WO-US000376.
XX PA (GETH ) GENENTECH INC.
XX PI Baker KP, Botstein D, Desnovers L, Eaton DL, Ferrara N, Fong S;
PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gunney AL, Hillan KJ;
PI Pan J, Pooni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK;
PI Williams PM, Wood WI;
XX WPI: 2001-071395/08.
XX DR
XX Secreted and transmembrane proteins and nucleic acids designated PRO,
XX PT useful as hybridization probes, in chromosome and gene mapping and gene
XX PT therapy.
XX PS Claim 1; Fig 224; 787pp; English.
XX CC The present invention relates to secreted and transmembrane proteins.
XX CC These proteins and the DNA encoding them may be used as hybridization
XX CC probes, in chromosome and gene mapping and in the generation of anti-
XX CC sense RNA and DNA. They may also be used to generate either
XX CC transgenic animals or knockout animals which are in turn useful for
XX CC development and screening of therapeutically useful reagents. The nucleic
XX CC acids may also be used in gene therapy
XX SQ Sequence 178 AA;
SQ
Query Match 99.7%; Score 933; DB 4; Length 178;
Best Local Similarity 99.4%; Pred. No. 8.4e-92;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0.
QY 1 MHRPAMLLLTALIGPTWAGKMYGGGKGFSTEDYDHEITGLRVSVGLLVKSQ 60
DB 1 MHRPAMLLLTALLGPTWAGKMYGGGKGFSTEDYDHEITGLRVSVGLLVKSQ 60
QY 61 VKLGSDWDVKLGAIGNTQEVTLQPEGYITKVFAFOAFRLRGVMWTSKDRYFYGLDG 120
DB 61 VKLGSDWDVKLGAIGNTQEVTLQPEGYITKVFAFOAFRLRMWMTSKDRYFYGLDG 120
QY 121 QISSAYPSOEGOVVLGIYGQVOLLGISIGIFEMWNPLEBPTTTPPVNLTYSANSFVGR 178
DB 121 QISSAYPSOEGOVVLGIYGQVOLLGISIGIFEMWNPLEBPTTTPPVNLTYSANSFVGR 178

```

XX	AC	AAU29255;
XX	DT	18-DEC-2001 (first entry)
XX	DE	Human PRO polypeptide sequence #232.
XX	KM	PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
XX	KW	dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
XX	KW	blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
XX	KW	adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX	OS	Homo sapiens.
XX	PN	WO200168848-A2.
XX	PD	20-SEP-2001.
XX	PF	28-FEB-2001; 2001WO-US006520.
XX	PR	01-MAR-2000; 2000WO-US005601.
XX	PR	02-MAR-2000; 2000WO-US005841.
XX	PR	03-MAR-2000; 2000US-0187202P.
XX	PR	06-MAR-2000; 2000US-0186968P.
XX	PR	14-MAR-2000; 2000US-0189320P.
XX	PR	15-MAR-2000; 2000US-0189328P.
XX	PR	21-MAR-2000; 2000WO-US006884.
XX	PR	21-MAR-2000; 2000US-0190828P.
XX	PR	21-MAR-2000; 2000US-0191007P.
XX	PR	21-MAR-2000; 2000US-0191048P.
XX	PR	21-MAR-2000; 2000US-0191314P.
XX	PR	28-MAR-2000; 2000US-0192655P.
XX	PR	29-MAR-2000; 2000US-0193032P.
XX	PR	29-MAR-2000; 2000US-0193053P.
XX	PR	30-MAR-2000; 2000WO-US008439.
XX	PR	04-APR-2000; 2000US-0194443P.
XX	PR	04-APR-2000; 2000US-0194647P.
XX	PR	11-APR-2000; 2000US-0195975P.
XX	PR	11-APR-2000; 2000US-0196000P.
XX	PR	11-APR-2000; 2000US-0196187P.
XX	PR	11-APR-2000; 2000US-0196690P.
XX	PR	11-APR-2000; 2000US-0196820P.
XX	PR	18-APR-2000; 2000US-0198121P.
XX	PR	18-APR-2000; 2000US-0198585P.
XX	PR	25-APR-2000; 2000US-0199397P.
XX	PR	25-APR-2000; 2000US-0199550P.
XX	PR	25-APR-2000; 2000US-0199654P.
XX	PR	03-MAY-2000; 2000US-0201516P.
XX	PR	17-MAY-2000; 2000WO-US013705.
XX	PR	22-MAY-2000; 2000WO-US014042.
XX	PR	30-MAY-2000; 2000WO-US014941.
XX	PR	02-JUN-2000; 2000WO-US015264.
XX	PR	05-JUN-2000; 2000US-0209832P.
XX	PR	28-JUL-2000; 2000WO-US020710.
XX	PR	22-AUG-2000; 2000US-00644848.
XX	PR	24-AUG-2000; 2000WO-US023328.
XX	PR	08-NOV-2000; 2000WO-US030952.
XX	PR	01-DEC-2000; 2000WO-US032678.
XX	PR	20-DEC-2000; 2000WO-US034956.
XX	PA	(GETH) GENENTECH INC.
XX	PI	Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX	PI	Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX	DR	WPI; 2001-602746/68.
XX	DR	N-PSDB; AAS46156.
XX	PT	Novel nucleic acids encoding PRO polypeptides, used to diagnose the
XX	PT	presence of tumors, such as prostate and breast tumors, in mammals and to
XX	PT	screen for modulators of the compounds.
XX	PS	Claim 11; Fig 464; 774dp; English

PR 25-JUL-2000; 2000US-0220605P.
PR 25-JUL-2000; 2000US-0220607P.
PR 25-JUL-2000; 2000US-0220624P.
PR 25-JUL-2000; 2000US-0220638P.
PR 25-JUL-2000; 2000US-0220664P.
PR 25-JUL-2000; 2000US-0220666P.
PR 26-JUL-2000; 2000US-0220893P.
PR 28-JUL-2000; 2000MO-US020710.
PR 01-AUG-2000; 2000US-0222425P.
PR 22-AUG-2000; 2000US-0227133P.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 10-NOV-2000; 2000MO-US030873.
PR 28-NOV-2000; 2000US-0253646P.
PR 01-DEC-2000; 2000MO-US032878.
PR 20-DEC-2000; 2000US-0074725P.
PR 20-DEC-2000; 2000MO-US034956.
PR 28-FEB-2001; 2001MO-US006520.
PR 01-MAR-2001; 2001MO-US006666.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001MO-US017092.
XX
XX
PA (GETH) GENENTECH INC.
PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ,
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX
XX WPI; 2002-172001/22.
DR N-PSDB; ABRK3639.
XX
XX One hundred and twenty two nucleic acids encoding PRO polypeptides,
PT useful for treating a PRO related disorder and for diagnosing tumors such
PT as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
PT or liver tumor.
XX
XX
PS Claim 11, Fig 208, 359pp; English.
XX
XX The invention relates to one hundred and twenty two nucleic acids
CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
CC agonists and antagonists are useful for treating a PRO related disorder.
CC The PRO polypeptides are useful for diagnosing tumors, especially lung
CC cancer, colon cancer, breast tumor, prostate tumor, rectal tumor or
CC liver tumor. The PRO polypeptides are useful for stimulating the
CC proliferation of, or gene expression, in pericyte cells, for stimulating
CC the proliferation or differentiation of chondrocyte cells, for
CC stimulating the release of tumour necrosis factor-alpha from human blood,
CC for stimulating or inhibiting the proliferation of normal human dermal
CC fibroblast cells. The PRO polypeptide may also be used as molecular
CC weight markers and for tissue typing. The PRO nucleic acids have
CC applications in molecular biology, including use as hybridisation probes,
CC and in chromosome and gene mapping. AA083592-AA083713 represent human PRO
CC protein sequences of the invention.
XX
XX
SQ Sequence 178 AA;
XX
XX
XX Query Match 99.7%; Score 933; DB 5; Length 178;
XX Best Local Similarity 99.4%; Prod. No. 8.4e-92;
XX Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
XX
XX
QY 1 MHRPEAMLLLTLLALGGPTWAGMYGPGGKTFSTEDYDHEITGLRVSGLLVKSVQ 60
Db 1 MHRPEAMLLLTLLALGGPTWAGMYGPGGKTFSTEDYDHEITGLRVSGLLVKSVQ 60
XX
QY 61 VKIGDSMDVYLGALGNTQEVTLQPGYITKRVFAAPAFRGVYNTSKRYYFPGDLG 120
Db 61 VKIGDSMDVYLGALGNTQEVTLQPGYITKRVFAAPAFRGVYNTSKRYYFPGDLG 120
XX
QY 121 QISSAVPSQSGQYLVGIYGYQLGIKSI GFENYPLPEETPPNVLTYSANSPVGR 178
Db 121 QISSAVPSQSGQYLVGIYGYQLGIKSI GFENYPLPEETPPNVLTYSANSPVGR 178
XX
XX
XX WPI; 2002-090516/12.
XX N-PSDB; ABL88200.

RESULT 9
ABR84945
ID ABR84945 standard; protein; 178 AA.
XX
XX
AC ABR84945;
XX
XX
DT 16-MAY-2002 (first entry)
DE
DE Human PRO1567 protein sequence SEQ ID NO:258.
XX
XX Human; angiogenesis; cartiant; cyostatic; antiangiogenic; hypotensive;
KM valvular; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
KM gene therapy; cardiovascular disorder; endothelial disorder; cancer;
KM angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
KM age-related macular degeneration; arterial restenosis; angina;
KM rheumatoid arthritis; myocardial infarction; thrombophlebitis;
KM lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
KM wound healing; chromosome mapping; gene mapping.
XX
XX Homo sapiens.
OS
XX
XX W0200200690-A2.
PN
XX
XX 03-JAN-2002.
PF
XX
XX 20-JUN-2001; 2001MO-US019692.
XX
XX
XX 23-JUN-2000; 2000US-0213637P.
PR 20-JUL-2000; 2000US-0219556P.
PR 25-JUL-2000; 2000US-0220624P.
PR 25-JUL-2000; 2000US-0220664P.
PR 28-JUL-2000; 2000MO-US020710.
PR 02-AUG-2000; 2000US-0222695P.
PR 17-AUG-2000; 2000US-00643657.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 07-SEP-2000; 2000US-0230978P.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00663350.
PR 24-OCT-2000; 2000US-0242922P.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000MO-US030952.
PR 10-NOV-2000; 2000MO-US030873.
PR 01-DEC-2000; 2000MO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000MO-US034956.
PR 22-JAN-2001; 2001US-00767609.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001MO-US006520.
PR 01-MAR-2001; 2001MO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00806889.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001MO-US017092.
PR 30-MAY-2001; 2001US-00870574.
PR 30-MAY-2001; 2001MO-US017443.
PR 01-JUN-2001; 2001MO-US017800.
XX
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,
PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF,
PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
XX
XX WPI; 2002-090516/12.
XX N-PSDB; ABL88200.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endotheial or angiogenic disorders in a mammal.
 XX
 PS Claim 11; Fig 258; 565pp; English.
 XX
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
 CC ABB85003. The PRO proteins and polynucleotides have cardiant, cytostratic,
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endotheial or angiogenic disorder in a mammal, e.g.
 CC cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
 CC angina, myocardial infarctions, thrombopilebtis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The PRO polynucleotides have applications in molecular biology,
 CC including use as hybridisation probes, and in chromosome and gene
 CC mapping. ABL88259 to ABL88267 represent primers and probes used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 178 AA;
 XX
 Query Match 99.7%; Score 933; DB 5; Length 178;
 Best Local Similarity 99.4%; Pred. No. 8.4e-92;
 Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MHRPEAMLLLTLLALGGPTWAGKMYGPGGKRYSTTEDYDHEITGLRVSGLLLVKSQ 60
 Db 1 MHRPEAMLLLTLLALGGPTWAGKMYGPGGKRYSTTEDYDHEITGLRVSGLLLVKSQ 60
 QY 61 VKLGDSDVVKLGALGNGTQEVTLQPGEXYITKVFVAFQAFRLGVMYTSKDRYFYFGKLDG 120
 Db 61 VKLGDSDVVKLGALGNGTQEVTLQPGEXYITKVFVAFQAFRLGVMYTSKDRYFYFGKLDG 120
 QY 121 QISSAYPSQEGQVLVGIYGQYQLGIGKISIGFEMNYPLEBPTEPPVNLTYSANSPVGR 178
 Db 121 QISSAYPSQEGQVLVGIYGQYQLGIGKISIGFEMNYPLEBPTEPPVNLTYSANSPVGR 178
 RESULT 10
 ABB64908
 ID ABB64908 standard; protein; 178 AA.
 AC ABB64908;
 DT 27-AUG-2002 (first entry)
 XX
 DE Human albumin fusion protein #1583.
 XX
 KW Albumin fusion protein; therapeutic protein X; human albumin; HA;
 KW human serum albumin; HSA; cancer; reproductive disorder;
 KW digestive disorder; immune disorder; endocrine disorder;
 KW haematopoietic disorder; neural disorder; connective disorder;
 KW cytostratic; antifertility; antiinflammatory; anticulcer;
 KW immunomodulator; anti-HIV; antidiabetic; haemostatic; nootropic;
 KW neuroprotective; antiparkinsonian; antimicrobial; neuroleptic;
 KW osteopathic; antirheumatic.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200177137-A1.
 XX
 PD 18-OCT-2001.
 XX
 PF 12-APR-2001; 2001WO-US011988.
 XX
 PR 12-APR-2000; 2000US-0229358P.
 XX
 PR 25-APR-2000; 2000US-0199384P.
 XX
 PR 21-DEC-2000; 2000US-0256931P.
 XX

PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Haseltine WA;
 XX
 DR WPI; 2002-010886/01.
 XX
 PT New fusion protein for treating disease e.g. diabetes comprises an
 PT albumin fused to a therapeutic protein.
 XX
 PS Claim 1; Page 1593-1594; 2102pp; English.
 XX
 CC The present invention relates to albumin fusion proteins comprising a
 CC therapeutic protein X and human albumin (HA, also known as human serum
 CC albumin, HSA). The proteins are useful for treating a disease or disorder
 CC that may be modulated by therapeutic protein X. The albumin extends the
 CC shelf-life of protein X, and may increase its biological in vitro/in vivo
 CC activity. The protein is useful for treating and diagnosing disorders
 CC such as cancer, reproductive disorders, digestive disorders (e.g. Crohn's
 CC disease, ulcerative colitis), immune disorders (e.g. acquired
 CC immunodeficiency syndrome, AIDS), endocrine disorders (e.g. diabetes),
 CC haematopoietic disorders, neural disorders (e.g. Alzheimer's,
 CC Parkinson's, Creutzfeldt-Jacob disease, encephalomyelitis, meningitis,
 CC schizophrenia), and connective disorders (e.g. osteoporosis, arthritis).
 CC ABB63326-ABB65518 represent albumin fusion proteins of the invention
 XX
 SQ Sequence 178 AA;
 XX
 Query Match 99.7%; Score 933; DB 5; Length 178;
 Best Local Similarity 99.4%; Pred. No. 8.4e-92;
 Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MHRPEAMLLLTLLALGGPTWAGKMYGPGGKRYSTTEDYDHEITGLRVSGLLLVKSQ 60
 Db 1 MHRPEAMLLLTLLALGGPTWAGKMYGPGGKRYSTTEDYDHEITGLRVSGLLLVKSQ 60
 QY 61 VKLGDSDVVKLGALGNGTQEVTLQPGEXYITKVFVAFQAFRLGVMYTSKDRYFYFGKLDG 120
 Db 61 VKLGDSDVVKLGALGNGTQEVTLQPGEXYITKVFVAFQAFRLGVMYTSKDRYFYFGKLDG 120
 QY 121 QISSAYPSQEGQVLVGIYGQYQLGIGKISIGFEMNYPLEBPTEPPVNLTYSANSPVGR 178
 Db 121 QISSAYPSQEGQVLVGIYGQYQLGIGKISIGFEMNYPLEBPTEPPVNLTYSANSPVGR 178
 RESULT 11
 ABB77007
 ID ABB77007 standard; protein; 178 AA.
 AC ABB77007;
 DT 08-OCT-2002 (first entry)
 XX
 DE Human protein sequence #1 from clone HMKO80.
 XX
 KW Human; HMKO80; secreted protein; immunosuppressive; food preservative;
 KW antirheumatic; antineumatic; antiproliferative; cytostratic; cardiant;
 KW vasorelaxant; cerebroprotective; nootropic; neuroprotective; antibacterial;
 KW virocidic; fungicide; ophthalmological; vulnerary; gene therapy; ELISA;
 KW radiolimmunoassay; enzyme linked immunosorbent assay; autoimmune disease;
 KW hyperproliferative disorder; cardiovascular disorder; angiogenesis;
 KW cerebrovascular disorder; nervous system disorder; ocular disorder;
 KW wound healing; food additive.
 XX
 OS Homo sapiens.
 XX
 PN WO200222638-A1.
 XX
 Key Location/Qualifiers
 FT 1..22 /label= Signal_peptide
 FT 23..178 /label= Mature_protein
 XX
 FT Protein
 XX
 PN WO200222638-A1.
 XX

PD 21-MAR-2002.
XX 17-JAN-2001; 2001MO-US001386.
XX 12-SEP-2000; 2000US-0232104P.
XX (HUMA-) HUMAN GENOME SCI INC.
XX Rosen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR,
PI Oisen HS, Moore PA, Wei P, Edner R, Duan DR, Shi Y, Choi GH,
PI Fiscella M, Ni J;
XX WPI; 2002-258041/30.
DR N-PSDB; ABL55076.
XX New nucleic acid molecules encoding 22 human secreted proteins for
PT diagnosing or treating e.g. autoimmune diseases, hyperproliferative
PT disorders, and cardiovascular disorders, and used as food additives or
PT preservatives.
XX Disclosure; Page 476-477; 526pp; English.
XX The sequence represents a protein sequence of the invention, encoded by
CC cDNA isolated from human clone ID HNK080. The invention relates to novel
CC isolated nucleic acid molecules encoding 22 human secreted proteins. The
CC proteins of the invention have immunosuppressive, antiarthritic,
CC antineumatic, antiproliferative, cytostatic, cardiant, vasotropic,
CC cerebroprotective, neuroprotective, antibacterial, virucide,
CC fungicide, ophthalmological, and vulnerary activity. The polynucleotides
CC may have a use in gene therapy. The polynucleotides and polypeptides
CC encoded by them are used to prevent, treat or ameliorate a medical
CC condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs,
CC chickens or sheep. The polynucleotides and polypeptides are also used in
CC diagnosing a pathological condition or susceptibility to a pathological
CC condition. The antibodies to the proteins can also be used in alleviating
CC symptoms associated with the disorders and in diagnostic immunoassays
CC e.g. radioimmunoassays or enzyme linked immunosorbent assays (ELISA).
CC Disorders which are diagnosed or treated include autoimmune diseases,
CC hyperproliferative disorders, cardiovascular disorders, cerebrovascular
CC disorders, anglogenesis, nervous system disorders, infections caused by
CC bacteria, viruses and fungi and ocular disorders. The polypeptides can
CC also be used to aid wound healing and epithelial cell proliferation. The
CC polypeptides can also be used as a food additive or preservative
XX Sequence 178 AA:
SQ
Query Match 99.7%; Score 933; DB 5; Length 178;
Best local Similarity 99.4%; Pred. No. 8,4e-92;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRRPEAMLLITLALLGGPTWAGRMVGGGKYFSTEDYDHEITGLRVSVGLLVKSVQ 60
DB 1 MRRPEAMLLITLALLGGPTWAGRMVGGGKYFSTEDYDHEITGLRVSVGLLVKSVQ 60
QY 61 VKLGDSWDVVLGALGNTQVETLQPGEXYITKVPFAFAFARLGVVMTSKRYFFGLDQ 120
DB 61 VKLGDSWDVVLGALGNTQVETLQPGEXYITKVPFAFAFARLGVVMTSKRYFFGLDQ 120
QY 121 QISSAYPSQSGQVVLVIGYQYLLGISIGFEMNYPLEBPTTEPPVLLTVSANSPPVR 178
DB 121 QISSAYPSQSGQVVLVIGYQYLLGISIGFEMNYPLEBPTTEPPVLLTVSANSPPVR 178
RESULT 12
ID ABB95551 standard; protein; 178 AA.
XX ABB95551;
XX 19-JUL-2002 (first entry)
XX Human angiogenesis related protein PRO1567 SEQ ID NO: 258.
XX

KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary;
KW antiarteriosclerotic.
XX Homo sapiens.
XX WO200208284-A2.
XX 31-JAN-2002.
XX 09-JUL-2001; 2001MO-US021735.
XX 20-JUL-2000; 2000US-0219556P.
XX 25-JUL-2000; 2000US-0220624P.
XX 25-JUL-2000; 2000US-0220664P.
XX 28-JUL-2000; 2000MO-US020710.
XX 02-AUG-2000; 2000US-022695P.
XX 17-AUG-2000; 2000US-00643657.
XX 23-AUG-2000; 2000MO-US023522.
XX 24-AUG-2000; 2000MO-US023328.
XX 07-SEP-2000; 2000US-0230978P.
XX 18-SEP-2000; 2000US-00664610.
XX 18-SEP-2000; 2000US-00665350.
XX 24-OCT-2000; 2000US-0242922P.
XX 08-NOV-2000; 2000US-00709238.
XX 08-NOV-2000; 2000MO-US030952.
XX 10-NOV-2000; 2000MO-US030873.
XX 01-DEC-2000; 2000MO-US032678.
XX 20-DEC-2000; 2000US-00747259.
XX 20-DEC-2000; 2000MO-US034956.
XX 22-JAN-2001; 2001US-00767609.
XX 28-FEB-2001; 2001US-00796498.
XX 28-FEB-2001; 2001MO-US006520.
XX 01-MAR-2001; 2001MO-US006566.
XX 09-MAR-2001; 2001US-00802706.
XX 14-MAR-2001; 2001US-00808689.
XX 22-MAR-2001; 2001US-00816744.
XX 05-APR-2001; 2001US-00828366.
XX 10-MAY-2001; 2001US-00854208.
XX 10-MAY-2001; 2001US-00854280.
XX 25-MAY-2001; 2001US-00866028.
XX 25-MAY-2001; 2001US-00866034.
XX 25-MAY-2001; 2001MO-US017092.
XX 30-MAY-2001; 2001US-00870574.
XX 30-MAY-2001; 2001MO-US017443.
XX 01-JUN-2001; 2001MO-US017800.
XX 20-JUN-2001; 2001MO-US019692.
XX (GETH) GENENTECH INC.
XX (BAKE) BAKER K P.
XX (FERA) FERRARA N.
XX (GERB) GERBER H.
XX (GERR) GERRITSEN M E.
XX (GODD) GODDARD A.
XX (GODO) GODOWSKI P J.
XX (GURN) GURNEY A L.
XX (HILL) HILLAN K J.
XX (MARS) MARSTERS S A.
XX (PANT) PAN J.
XX (PAON) PAONI N F.
XX (STEP) STEPHAN J F.
XX (WATA) WATANABE C K.
XX (WILL) WILLIAMS P M.
XX (WOOD) WOOD W I.
XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,
XX Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J,
XX Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W,
XX WPI; 2002-171999/22.
XX N-PSDB; ABL55689.
XX

PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT infarction), endothelial or angiogenic disorders in a mammal.

PS Claim 11; Fig 258; 567bp; English.

XX The present invention provides the protein and coding sequences of human
CC PRO proteins. These are useful for treating or diagnosing a
CC cardiovascular, endothelial or angiogenic disorder, including cardiac
CC hypertrophy, trauma, cancer, age-related macular degeneration,
CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
CC healing. The present sequence is a PRO protein of the invention

XX Sequence 178 AA;

Query Match 99.7%; Score 933; DB 5; Length 178;
Best Local Similarity 99.4%; Pred. No. 8.4e-92;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRPEMLLTLLALGPTWAGKMGPGGKYFSTTEBYDHEITGLRVSGLLVKSVQ 60
Db 1 MRRPEMLLTLLALGPTWAGKMGPGGKYFSTTEBYDHEITGLRVSGLLVKSVQ 60
QY 61 VTLGDSWDVKALGAGTQEVTLQPGRYTKVFAFQAFLRGVWMTSKDRFYFGKLDG 120
Db 61 VTLGDSWDVKALGAGTQEVTLQPGRYTKVFAFQAFLRGVWMTSKDRFYFGKLDG 120
QY 121 QISSAVPSQEGQVLVIGYQYLLGIKISGFEMWYPLEBPTTEPPVNLTYSANSPVGR 178
Db 121 QISSAVPSQEGQVLVIGYQYLLGIKISGFEMWYPLEBPTTEPPVNLTYSANSPVGR 178

RESULT 13

ABUS8631
ID ABUS8631 standard; protein; 178 AA.

XX ABUS8631;

DT 15-APR-2003 (first entry)

XX Human PRO polypeptide #232.

DE Human PRO; cytosolic; tumour; cancer; breast; lung; stomach; liver;
KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADERT;
KW antibody-dependent enzyme mediated prodrgng therapy.

XX Homo sapiens.

PN US2003027272-A1.

XX 06-FEB-2003.

PF 21-JUN-2002; 2002US-00176492.

XX 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

PR 17-OCT-1997; 97US-0062250P.

PR 21-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-0063120P.

PR 24-OCT-1997; 97US-0063121P.

PR 28-OCT-1997; 97US-0063540P.

PR 28-OCT-1997; 97US-0063541P.

PR 28-OCT-1997; 97US-0063544P.

PR 29-OCT-1997; 97US-0063734P.

PR 31-OCT-1997; 97US-0063870P.

PR 31-OCT-1997; 97US-0065103P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066120P.

PR 24-NOV-1997; 97US-0066466P.

PR 24-NOV-1997; 97US-0066772P.

PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078866P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 31-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 01-APR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086466P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087825P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089109P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.

PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00905413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 18-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.

PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 99.7%; Score 933; DB 6; Length 178;
Best Local Similarity 99.4%; Pred. No. 8.4e-92; Mismatches 0; Gaps 0;
Matches 177; Conservative 1; Indels 0;

QY 1 MRRPEAMLLLTALIGPTWAGKMGPGGKFFSTEDYDHEITGLRVSGLLVKSVQ 60
Db 1 MRRPEAMLLLTALIGPTWAGKMGPGGKFFSTEDYDHEITGLRVSGLLVKSVQ 60
QY 61 VKLGDSMDVKLGALGNTQETVLQPGBYITKVFVAQAFIRGVMTSKDRYFFGKLDG 120
Db 61 VKLGDSMDVKLGALGNTQETVLQPGBYITKVFVAQAFIRGVMTSKDRYFFGKLDG 120
QY 121 QISSAYPSQGVLTNGIYGYOLLGKISGFENNYPLEEPTTTPPVNLITYSANSVGR 178
Db 121 QISSAYPSQGVLTNGIYGYOLLGKISGFENNYPLEEPTTTPPVNLITYSANSVGR 178
RESULT 14
ID ABU88179 standard; protein; 178 AA.
XX
AC ABU88179;
XX
DT 07-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO1567.
XX
KW Human; secreted and transmembrane protein; PRO; gene therapy;
KW Human necrosis factor-alpha release; TNF-alpha release;
KW Chondrocyte proliferation; chondrocyte differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
PN US2003032127-A1.
XX
PD 13-FEB-2003.
XX
PF 26-JUN-2002; 2002US-00183012.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0081070P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.

PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 04-JUL-1998; 98US-0094006P.
PR 10-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095896P.
PR 17-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.

PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 25-SEP-1998; 98US-0102240P.
PR 25-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.

Query Match 99.7%; Score 933; DB 6; Length 178;
Best Local Similarity 99.4%; Pred. No. 8.4e-92;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRPEAMLLLTALIGPTMAGMVGPGGKXYSTTEDYDHEITGLRVSGLLVKSVQ 60
DB 1 MHRPEAMLLLTALIGPTMAGMVGPGGKXYSTTEDYDHEITGLRVSGLLVKSVQ 60
QY 61 VKLGDSMDVKLAGNTOEVTLOPGEXITKVFVAFOALRGVMTSKDXYFFGKLDG 120
DB 61 VKLGDSMDVKLAGNTOEVTLOPGEXITKVFVAFOALRGVMTSKDXYFFGKLDG 120
QY 121 QISSAVSQEQGVIVGIVGYQLIGIKSIGFENMYPLEEPTPEPVNLTYSANSPVR 178
DB 121 QISSAVSQEQGVIVGIVGYQLIGIKSIGFENMYPLEEPTPEPVNLTYSANSPVR 178

RESULT 15
ABU84494
ID ABU84494 standard; protein; 178 AA.

XX AC ABU84494;

XX DT 02-AUG-2003 (first entry)

XX DE Human secreted/transmembrane protein (PRO) #232.

XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;

KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;

XX OS Homo sapiens.

PN US2003032112-A1.

PD 13-FEB-2003.

PF 21-JUN-2002; 2002US-00176756.

XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063546P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.

PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 18-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 09-JUN-1998; 98US-0088217P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088867P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 9, 2005, 21:15:19 ; Search time 16 Seconds

(without alignments)
1070.411 Million cell updates/sec

Title: US-10-054-976-2

Sequence: 1 MHRPAMLLLTLLTGPT.....EPTTEPVNLTYSANSPVGR 178

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR 79: *
2: PIR1: *
3: PIR2: *
4: PIR3: *
5: PIR4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	183.5	19.6	159	2	A49685 common salivary pr
2	160	17.1	148	2	ZG-16p protein - r
3	160	17.1	199	2	spermine-binding p
4	122.5	13.1	170	2	152115 common salivary pr
5	102.5	11.0	1581	2	B71636 hypothetical prote
6	95.5	10.2	350	2	C70072 serine/threonine p
7	93.5	10.0	1583	2	P97846 hypothetical prote
8	91.5	9.8	612	2	T50226 hypothetical prote
9	88.5	9.5	680	2	T08080 probable myosinas
10	87.5	9.3	1210	2	T07658 aldehyde oxidase (
11	86	9.2	334	2	A29561 prostatic spermi
12	84.5	9.0	295	2	A12981 ABC transporter, m
13	84.5	9.0	295	2	G98301 hypothetical ABC t
14	83.5	8.9	853	2	T13530 hypothetical prote
15	82	8.8	176	2	H96755 similar to facalin
16	82	8.8	2894	2	C64474 hypothetical prote
17	81.5	8.7	303	2	B96560 hypothetical prote
18	80	8.5	139	2	S19115 G0S9 protein - ric
19	80	8.5	303	2	F64701 hypothetical prote
20	80	8.5	1946	2	JC6032 lactococpin (EC 3.4
21	79	8.4	404	2	AC1097 xylose repressor h
22	79	8.4	1289	1	BMXR83 mRNA granulyltrans
23	78	8.3	481	2	D87489 NADH dehydrogenase
24	77.5	8.3	257	2	E71877 probable amino aci
25	77.5	8.3	293	2	D96560 hypothetical prote
26	77.5	8.3	656	2	B82056 glutathione-regula
27	77.5	8.3	878	1	RRXSIB RNA-directed RNA p
28	77	8.2	211	1	B65110 hypothetical 24.0
29	77	8.2	275	2	C89858 conserved hypothet

30	77	8.2	303	2	A71819 hypothetical prote
31	77	8.2	363	2	S51104 outer membrane por
32	77	8.2	412	2	G64736 yacC protein - Bsc
33	77	8.2	443	2	D71058 hypothetical prote
34	77	8.2	1098	1	YGBSG1 phenylalanine race
35	76.5	8.2	445	2	H96560 hypothetical prote
36	76.5	8.2	554	2	S03809 cytochrome-c oxida
37	76	8.1	211	2	B85983 hypothetical prote
38	76	8.1	211	2	G91137 hypothetical prote
39	76	8.1	571	2	B86330 F6F9.23 protein -
40	76	8.1	662	2	H97834 cytochrome C-type
41	76	8.1	866	1	C64834 probable outer mem
42	75.5	8.1	440	2	T38215 probable secretory
43	75.5	8.1	525	1	RRXSIS RNA-directed RNA p
44	75	8.0	404	2	AB1460 xylose repressor h
45	75	8.0	730	2	F96559 hypothetical prote

ALIGNMENTS

RESULT 1

A49685

common salivary protein 1 precursor - rat

C:Species: Rattus norvegicus (Norway rat)

C>Date: 26-May-1995 #sequence_revision 26-May-1995 #text_change 09-Jul-2004

C:Accession: A49685

R:Girard, L.R.; Castle, A.M.; Hand, A.R.; Castle, J.D.; Mirels, L.

J. Biol. Chem. 268, 26592-26601, 1993

A>Title: Characterization of common salivary protein 1, a product of rat submandibular,

A:Reference number: A49685; MUID:94075351; PMID:8253789

A:Accession: A49685

A>Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-159 <GIR>

A:Cross-references: UNIPROT:Q63015; GB:U00964; NID:9392936; PIDN:AAA16140.1; PID:9392937

C:Superfamily: common salivary protein 1

C:Keywords: extracellular protein; glycoprotein; saliva

F.1-17/Domain: signal sequence #status predicted <SIG>

Query Match 19.6% Score 183.5; DB 2; Length 159;
Best local similarity 30.0%; Pred. No. 4.2e-10;
Matches 45; Conservative 29; Mismatches 73; Indels 3; Gaps 2;

QY	7	MLLLITLALGGPT--NAGKMYGPGGKYFSTEDYHEITGLRVSVGLLVKSVOYRLG	64
DB	1	MLPILIAFLGTPAVLQSRVHSGTGHFCITVAPEGSPVIGWASLKNNTLSIRLKF	60
QY	65	DSWVYKGLAGNTQEVTLQPEYITKYFVAFOAFKRGVWYTSKDRFFRYGKLDDQ--IS	123
DB	61	NNMQEYVSSGRARIEVLNDEFTVLGFGSGFYIFMQIIITTSQPRELIIGPLGRVYV	120
QY	124	SAYPSGQGVVYGYGQYQLGKSGFEM	153
DB	121	TSYPENPNHVRGIGGYVTGGLKGMRLW	150

RESULT 2

S42924

ZG-16p protein - rat

C:Species: Rattus norvegicus (Norway rat)

C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004

C:Accession: S42924

R:Cronshagen, U.; Voland, P.; Kern, H.F.

submitted to the EMBL Data Library, March 1994

A:Description: cDNA cloning and characterization of a novel 16 kDa protein located in zy

A:Reference number: S42924

A:Accession: S42924

A>Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-148 <CRO>

A:Cross-references: UNIPROT:Q63680; EMBL:Z30584; NID:9459253; PIDN:CAA83059.1; PID:94592

C:Superfamily: common salivary protein 1

Query Match 17.1%; Score 160; DB 2; Length 148;
Best Local Similarity 31.3%; Pred. No. 6.5e-08;
Matches 46; Conservative 23; Mismatches 62; Indels 16; Gaps 4;

QY 7 MLLLTLLALIGGTTWAGKM-----YGGGKKYFS-TTDDYDHEITGLRVSGLL 55
DB 1 MLLLTLLALIGGTTWAGKM-----YGGGKKYFS-TTDDYDHEITGLRVSGLL 55
QY 56 VKSVQVYKLGDSMWVKLGALGN--TDEVTLPQGEYITKVFVAFQAFLRGVWMTSKDRYE 113
DB 61 IIGLQVRYGVWMS---DYVGNRETEREIFLHPBSVYQVSGKYSYVKQLIFVTDKRYL 117
QY 114 YFGKLDGQIISAVPSQEGVTVGIYQG 140
DB 118 PFGKDSGTSPFNAVPLHPNTVLRFTISGR 144

RESULT 3

S01266
Spermatine-binding protein precursor, prostatic - mouse
N:Alternate names: secretory glycoprotein p25, prostatic
C:Species: Mus musculus (house mouse)
C>Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 09-Jul-2004
A:Accession: S01266
R:Miller, J.S.; Needham, M.; Parker, M.G.
Nucleic Acids Res. 15, 7709-7724, 1987
A>Title: Androgen regulated expression of a spermatine binding protein gene in mouse ventr
A:Reference number: S01266; MID:88040403; PMID:3502715
A:Accession: S01266
A:Molecule type: DNA
A:Residues: 1-199 <MIL>
A:CROSS-references: UNIPROT:P15501; EMBL:X06246; NID:G53170; PIDN:CAA29591.1; PID:G53171
A>Note: the authors translated the codon ATA for residues 75 and 86 as Met
C:Keywords: glycoprotein
F:19-199/Product: spermatine-binding protein, prostatic
Query Match 17.1%; Score 160; DB 2; Length 199;
Best Local Similarity 31.4%; Pred. No. 9.3e-08;
Matches 48; Conservative 26; Mismatches 69; Indels 10; Gaps 5;

QY 7 MLLLTLLALIGGPTW-AGKMYGPGGKYSTTEDYDHEITGLRVSGLL-LVKSQVYKLG 64
DB 1 MLLLTLLALIGGPTW-AGKMYGPGGKYSTTEDYDHEITGLRVSGLL-LVKSQVYKLG 60
QY 65 DSDMDVYKLGALGNTOEVTLPQGEYITKVFVAFQAFLRGVWMTSKDRYFPGKLDGQIS 124
DB 61 SMTVDYVGTSDNFIDFLDEGHEVLRKESAVICLTSLFTTNKGRVATFGVRGR--- 117
QY 125 AVPSQEG---QVLVGIYGOYL-LGIRKSGFEW 153
DB 118 YFSDTQSGDKHLVTVNGMHAPGLCVRGIGFKW 149

RESULT 4

I52115
Common salivary protein 1 precursor - mouse
C:Species: Mus sp. (mouse)
C>Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
A:Accession: I52115
R:Behrhor, I.; Wen, Y.; Shi, S.; Hsieh, C.H.; Denny, P.A.; Denny, P.C.
Arch. Oral Biol. 39, 1011-1022, 1994
A>Title: CDNA cloning, sequencing and in situ localization of a transcript specific to h
A:Reference number: I52115; MID:95233937; PMID:7717881
A:Accession: I52115
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-170 <RSS>
A:CROSS-references: UNIPROT:Q64097; GB:S76879; NID:G914062; PIDN:AA34023.1; PID:G914063
C:Superfamily: common salivary protein 1
Query Match 13.1%; Score 122.5; DB 2; Length 170;

Best Local Similarity 29.5%; Pred. No. 0.00027;
Matches 46; Conservative 20; Mismatches 87; Indels 3; Gaps 3;

QY 1 MHRPAMLLLTLLALIGGTTWAGKM--GPGGKKYFSTTEDYDHEITGLRVSGLLVKS 59
DB 1 MHRPAMLLLTLLALIGGTTWAGKM--GPGGKKYFSTTEDYDHEITGLRVSGLLVKS 59
QY 60 QVKGDSMDVYKLGALGNTOEVTLPQGEYITKVFVAFQAFLRGVWMTSKDRYFPGKL 118
DB 61 QGVNNDGQVYVSTAGKVMVARNNEESIIAEGYSPSALTQLIFTNQRQMLVGY 120
QY 119 DQGIS-SAVPSQEGVTVGIYQYQLIGKISGFEM 153
DB 121 VSSSEVSFPDDPSHVLKGCACVSWRAGIKSLIFLM 156

RESULT 5

B71636
Hypothetical protein RP758 - Rickettsia prowazekii
C:Species: Rickettsia prowazekii
C>Date: 21-Nov-1998 #sequence_revision 21-Nov-1998 #text_change 09-Jul-2004
A:Accession: B71636
R:Andersson, S.G.E.; Zomorodipour, A.; Andersson, J.O.; Sichteritz-Ponten, T.; Alsmark, L.
Nature 396, 133-140, 1998
A>Title: The genome sequence of Rickettsia prowazekii and the origin of mitochondria.
A:Reference number: A71630; MID:99039499; PMID:9823893
A:Accession: B71636
A>Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-1581 <AND>
A:CROSS-references: UNIPROT:Q9ZC12; GB:AJ235273; GB:AJ235269; NID:G3861237; PIDN:CAA1518
A:Experimental source: strain Madrid E
C:Genetics:
A:Gene: RP758
Query Match 11.0%; Score 102.5; DB 2; Length 1581;
Best Local Similarity 27.0%; Pred. No. 0.33;
Matches 43; Conservative 24; Mismatches 51; Indels 41; Gaps 8;

QY 15 LIGGPTWAGKMVGPGGKKYFSTTEDYDHEITGLRVSGLL-LVKSQVYKLGDSMDVYKLG 74
DB 779 LRGGPV-----SRGLRMSDPAEDYRFFILG-----LKKAMTK--NSYIVVSGK 822
QY 75 GG---NTDEVTLPQGEYITKVFVAFQAFLRGVWMTSKDRYFPGKLDGQI-----SSAY 126
DB 823 GGFYVVFTEBGLTRDEWKEVCEYKNFLRGLDITD-----NIDKVVHPKDMITY 875
QY 127 PSQEGQVTVGI-----YGOYQLIGKISGFEMNPLEE 159
DB 876 DTQDPYLVVAADKGTASFSDY-----ANSVAKRYNWLD 910

RESULT 6

C70072
serine/threonine protein kinase homolog yxal - Bacillus subtilis
C:Species: Bacillus subtilis
C>Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
A:Accession: C70072
R:Kuner, F.; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berter
C.; Bron, S.; Brouillet, S.; Bruchin, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; CMC
A.; Ehrlich, S.D.; Emerson, P.T.; Ehtilan, K.D.; Erttington, J.; Fabret, C.; Ferrari, E.
Nature 390, 249-256, 1997
A:Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler
leeb, J.; Hatwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.
Koetter, P.; Koningsstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois,
A.; Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Mauee,
Y., M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelli,
Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadale, Y.; Sato, T.; Scanlon,
A.; Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seron
akeuchi, M.; Tanakoshi, A.; Tanaka, T.; Terpsstra, P.; Tognoni, A.; Tosato, V.; Uchiyama,
T.; Winters, P.; Wipac, A.; Yamamoto, H.; Yamane, K.; Yamamoto, K.; Yata, K.; Yoshida, K
A.; Authors: Yoshikawa, H.F.; Zumestein, E.; Yoshikawa, H.; Danchin, A.
A>Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.

R:Ori, N.; Behed, Y.; Pinto, P.; Paran, I.; Zamir, D.; Fluhr, R.

J. Biol. Chem. 272, 1019-1025, 1997

A:Title: TMO1, a representative of the molybdenum cofactor containing hydroxylases from

A:Reference number: Z16072; MUID:97150861; PMID:8995397

A:Accession: T07658

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-1210 <ORI>

A:Cross-references: UNIPROT:P93226; EMBL:U02559; NID:g1813703; PIDN:AA041742.1; PID:g181

A:Gene: TMO1

A:Map position: 11

A:Function:

A:Description: hydroxylase

A:Note: molybdenum cofactor

C:Superfamily: xanthine dehydrogenase; ferredoxin [2Fe-2S] homology

C:Keywords: oxidoreductase

Query Match 9.3%; Score 87.5; DB 2; Length 1210;

Best Local Similarity 22.4%; Pred. No. 6.3;

Matches 35; Conservative 25; Mismatches 63; Indels 33; Gaps 5;

QY 27 GPGGKRYFTTDDYDHEI-----TGLRVSVLLVKSVOYKLGDSMDVKL 71

DB 116 GNTGTGYKETQYDHYVDLRLHPELSIKRQDTGIEIGATVTSKFSY-LKEESHINL 174

QY 72 GALGNTQEVTLDPGEYITKVFVAFQAFRLRGVMTSKRYFRFGKLDGISAAYSQSG 131

DB 175 GSYGKLVSOQLADHMKLSPFRNSAVGGLVMVQK-----NGFSPDIA 220

QY 132 QVLVGIYGYQYQLIKISIGFEMNYPLEEPTPEPVN 167

DB 221 TLLLGTSATVSLM--TSHGE-NHTWELLISREPLD 253

RESULT 11

A29561

C:Species: Rattus norvegicus (Norway rat)

C>Date: 13-Dec-1988 #sequence_revision 15-Dec-1988 #text_change 09-Jul-2004

C:Accession: A29561

R:Chang, C.; Saltzman, A.G.; Hlipakka, R.A.; Huang, I.Y.; Liao, S.

J. Biol. Chem. 262, 2826-2831, 1987

A:Title: Prostatic spermine-binding protein. Cloning and nucleotide sequence of cDNA, and

A:Reference number: A29561; MUID:87137538; PMID:3818623

A:Accession: A29561

A:Molecule type: mRNA

A:Residues: 1-334 <CHA>

A:Cross-references: UNIPROT:P08723; GB:J02675; NID:g206855; PIDN:AAA42113.1; PID:g206856

Query Match 9.2%; Score 86; DB 2; Length 334;

Best Local Similarity 27.1%; Pred. No. 1.8;

Matches 26; Conservative 19; Mismatches 49; Indels 2; Gaps 2;

QY 59 VOYKLGDSMDVKLGALGNTQEVTLDPGEYITKVFVAFQAFRLRGVMTSKRYFRFGK 118

DB 110 IQRLFGAMSDVGSRLKTKKEFLLEDENHTQVSGRKCLTSLSTTKKGVVTFGR 169

QY 119 DQGISAYPSQEQVTLVGIYQYQL-LGKISIGFEW 153

DB 170 RG-LSFNMSGSDPKYLVTVNGLVAPGLCLNGMGFKM 204

RESULT 12

A12981

ABC transporter, membrane spanning protein Atu3458 [imported] - Agrobacterium tumefaciens

C:Species: Agrobacterium tumefaciens

C>Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004

C:Accession: A12981

R:Wood, D.W.; Setubal, J.C.; Kaul, R.; Monke, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L.

erage, G.; Gillet, W.; Grant, C.; Guenther, D.; Kutyavin, T.; Levy, R.; Li, M.; McClellan, P.; Romero, P.; Zhang, S.

Science 294, 2317-2323, 2001

A:Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, seer, E.W.

A:Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.

A:Reference number: AB2577; MUID:21608550; PMID:11743123

A:Accession: A12981

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-295 <KUR>

A:Cross-references: UNIPROT:Q8UB6; GB:AE008689; PIDN:AA04272.1; PID:g17741857; GSPDB:C

A:Experimental source: strain C58 (Dupont)

A:Gene: Atu3458

A:Map position: linear chromosome

C:Superfamily: oligopeptide permease protein oppB

Query Match 9.0%; Score 84.5; DB 2; Length 295;

Best Local Similarity 27.0%; Pred. No. 2.1;

Matches 30; Conservative 20; Mismatches 40; Indels 21; Gaps 5;

QY 6 AMLLLTTLALGGPTW-----AGKMYGPGGKRYFSTTE----DYDHEITGLRVS 50

DB 36 AVLLLVIAAIPAP-WLATHPYADLANTLQAPENGHVFCTDELGRDIYSRLMGARIT 94

QY 51 VGLLVKSVQV-KLGDSMDVKLGALGNTQEVTLDPGEYITKVFVAFQAF 100

DB 95 LTIISLIVPGVGLVGTASGYLGKFDYVMKR-----ITDIFLSPSLI 141

RESULT 13

G98301

hypothetical ABC transporter permease protein yddQ AGR_L_2741 [imported] - Agrobacterium

C:Species: Agrobacterium tumefaciens

C>Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 09-Jul-2004

C:Accession: G98301

R:Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman,

A.; Liu, F.; Wollam, C.; Allinger, M.; Doughy, D.; Scott, C.; Jappas, C.; Matkeltz, B.;

Science 294, 2323-2328, 2001

A:Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tur

A:Reference number: A97359; MUID:21608551; PMID:11743194

A:Accession: G98301

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-295 <KUR>

A:Cross-references: UNIPROT:Q8UB6; GB:AE007870; PIDN:AAK89937.1; PID:g15159892; GSPDB:C

A:Gene: AGR_L_2741

A:Map position: linear chromosome

C:Superfamily: oligopeptide permease protein oppB

Query Match 9.0%; Score 84.5; DB 2; Length 295;

Best Local Similarity 27.0%; Pred. No. 2.1;

Matches 30; Conservative 20; Mismatches 40; Indels 21; Gaps 5;

QY 6 AMLLLTTLALGGPTW-----AGKMYGPGGKRYFSTTE----DYDHEITGLRVS 50

DB 36 AVLLLVIAAIPAP-WLATHPYADLANTLQAPENGHVFCTDELGRDIYSRLMGARIT 94

QY 51 VGLLVKSVQV-KLGDSMDVKLGALGNTQEVTLDPGEYITKVFVAFQAF 100

DB 95 LTIISLIVPGVGLVGTASGYLGKFDYVMR-----ITDIFLSPSLI 141

RESULT 14

T13530

hypothetical protein 41 - Bacillus phage phi-105

C:Species: Bacillus phage phi-105

C>Date: 13-Aug-1999 #sequence_revision 13-Aug-1999 #text_change 09-Jul-2004

C:Accession: T13530

R:Kobayashi, K.; Okamura, K.; Inoue, T.; Sato, T.; Kobayashi, Y.

submitted to the EMBL Data Library, July 1998

A:Description: Complete nucleotide sequence of Bacillus subtilis phage phi-105.

A:Reference number: Z17688

A:Accession: T13530

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-853 <K03>

A:Cross-references: UNIPROT:Q9ZXE2; EMBL:AB016282; PIDN:BAA36647.1

C:Superfamily: phage PZA gene 12 protein

Query Match 8.9%; Score 83.5; DB 2; Length 853;

Best Local Similarity 22.2%; Pred. No. 9.9; Mismatches 76; Indels 51; Gaps 7;

Matches 42; Conservative 20; Mismatches 76; Indels 51; Gaps 7;

QY 15 LLGGPTWAGKMYGPGGKYFSTEDYDHEITGLRVSGILLVKSVOYKLGSDMDVKLGAL 74

Db 599 LLAGNAGGSSEGSRNQVMFS---YDSHTTGDSGSGVMFSKA--TKNSKSYTLALGHG 652

QY 75 GGNTOE---VTLPGEITTVFAVFAFLRGVVMYTSKDRYFPGKLDG-QISSAY--- 126

Db 653 NGKASEANKKIELNAKNGTVATGAIES-----VSNLKDLAEYFESADGAKIEASYLVA 706

QY 127 -----PSOEGQVLYNGYQYQLLGISIGPEWN-----Y 155

Db 707 LEGDKIRKAGQGDKILGVSKTAGVVLGGAAPYMDRFLRDFEGGIIYREVFDGEDIIITI 766

QY 156 PLSEPTTEP 164

Db 767 PAENPNYDP 775

RESULT 15

H96775

Similar to jacalin [imported] - Arabidopsis thaliana

C:Species: Arabidopsis thaliana (mouse-ear cress)

C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004

C:Accession: H96775

R:Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,

Chin, C.W.; Chung, M.K.; Com, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.;

ansen, N.F.; Hughes, B.; Hulzar, L.

Nature 408, 816-820, 2000

A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.

A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani,

Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A:Authors: Salberg, S.L.; Schwartz, J.R.; Shin, P.; Southwick, A.M.; Sun, H.; Tallon,

ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A:Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.

A:Reference number: AB6141; MUID:21016719; PMID:11130712

A:Accession: H96775

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-176 <STO>

A:Cross-references: UNIPROT:Q9SSM3; GB:AB005173; NID:G5903093; PIDN:AAD55651.1; GSPDB:GN

C:Genetics:

A:Gene: F3N23.24

A:Map position: 1

Query Match 8.8%; Score 82; DB 2; Length 176;

Best Local Similarity 26.8%; Pred. No. 2; Mismatches 48; Indels 44; Gaps 10;

Matches 42; Conservative 23; Mismatches 48; Indels 44; Gaps 10;

QY 27 GPGGKXYFSTED-----YDHEITGLRVSGILLVKSVOYKLGSDMDVKLGAL 74

Db 16 GPMGNGGTITDDGIYDGVREIRLVYDHCID---SISVIYDKNGKPAKSE---KHGCV 67

QY 75 GGN-TQEVTLQ-PGEYITKVFVAF-----QAFLRGVVMYTSKDRYFPGKLDGQISSA 125

Db 68 GGNKTSSEIKLYPEEYILTVGSGYVCPMVNSGTPVIRSMTPFKSNKQVGPYG---VEQG 122

QY 126 YP---SQEGQVLYNGYQ---YQLLGISIGPEWNYP 156

Db 123 TPPTFSVNGRIVGNKSGWY---LDSIGFHLSP 155

Search completed: May 9, 2005, 21:23:14

Job time : 28 secs

This Page Blank (uspto)

1	933	99.7	172	2	Q6UW28	Q6dw28	homo sapiens
2	899	96.0	178	2	Q96D40	Q96d40	homo sapiens
3	203	21.7	167	2	Q6O844	Q6O844	homo sapiens
4	183.5	19.6	159	2	Q63015	Q63015	rattus norvegicus
5	177.5	19.0	167	2	Q8K0C5	Q8K0C5	mus musculus
6	171.5	18.3	167	2	Q8CUD3	Q8Cj43	rattus norvegicus
7	170	18.2	232	2	Q9D6Y0	Q9d6y0	mus musculus
8	165.5	17.7	217	2	Q9CPM2	Q9cpm2	mus musculus
9	165.5	17.7	217	2	Q9D6Y8	Q9d6y8	mus musculus
10	165.5	17.7	217	2	Q9D6Z5	Q9d6z5	mus musculus
11	165.5	17.7	217	2	Q9D7C7	Q9d7c7	mus musculus
12	165	17.6	219	1	SPBP_RAT	Q8f757	rattus norvegicus
13	163.5	17.5	217	2	Q9CPM3	P08723	rattus norvegicus
14	160	17.1	148	2	Q63680	Q9CPM3	mus musculus
15	160	17.1	199	1	SPBP_MOUSE	Q63680	rattus norvegicus
16	134	14.3	171	2	Q9S0Y1	P15501	mus musculus
17	122.5	13.1	170	2	Q64097	Q9S0y1	mus musculus
18	122.5	13.1	170	2	Q78EA2	Q64097	mus musculus
19	122	13.0	197	2	Q8C6D7	Q8f6a2	mus sp.
20	104.5	11.2	1581	2	Q6B6Z1	Q8C6d7	mus musculus
21	102.5	11.0	1581	2	Q9GC12	Q6B6z1	rickettsia
22	95.5	10.2	410	1	YXAL_BACSU	Q9GC12	rickettsia
23	95.5	10.2	762	2	Q7V5X2	Pa2111	bacillus subtilis
24	94	10.0	150	2	Q6O601	Q7V5x2	prochlorococcus
25	93.5	10.0	1583	2	Q7P9S4	Q6O601	mus musculus
26	93.5	10.0	1583	2	Q92G89	Q7P9s4	rickettsia
27	93	9.9	702	2	Q6B2M1	Q92g89	rickettsia
28	91.5	9.8	612	1	YK66_SCHPO	Q6B2m1	yarrowia lipolytica
29	88.5	9.5	680	2	P93658	O9uz1	schizosaccharomyces
30	88.5	9.5	1361	2	Q9PVT5	P93658	baasica na
31	87.5	9.3	1210	2	Q7DM89	Q9Pvt5	lycopersicon lycopersicon

32	87	9.3	1337	2	Q8H343	Q8H343	<i>oryza sativa</i>
33	86	9.2	534	2	Q8HIS9	Q8HIS9	<i>monosigma br</i>
34	85.5	9.1	690	2	Q8GR64	Q8GR64	<i>pseudomonas</i>
35	85.5	9.1	1093	2	Q88MX4	Q88MX4	<i>pseudomonas</i>
36	85.5	9.1	1093	1	NA14_HUMAN	Q86W24	<i>homo sapien</i>
37	84.5	9.0	295	2	Q8UAB5	Q8UAB5	<i>agrobacterii</i>
38	83.5	8.9	309	1	LECA_CASCR	P82859	<i>castranea cr</i>
39	83.5	8.9	525	2	Q8PMV4	Q8PMV4	<i>xanthomonas</i>
40	83.5	8.9	655	2	Q9F9U2	Q9F9U2	<i>pseudomonas</i>
41	83.5	8.9	853	2	Q9EXE2	Q9EXE2	<i>bacteriophana</i>
42	83.5	8.9	1309	2	Q7VBL9	Q7VBL9	<i>prochlorococ</i>
43	83	8.9	1289	2	Q9IRAI	Q9IRAI	<i>revivirius ty</i>
44	82.5	8.8	315	2	Q8GMI7	Q8GMI7	<i>arabidopsis</i>
45	82.5	8.8	375	2	Q93IT4	Q93IT4	<i>enterobacte</i>

ALIGNMENTS

RESULT 1	Q6UM28	PRELIMINARY;	PRT;	178 AA.
ID	Q6UM28			
AC	Q6UM28			
DT	05-JUL-2004 (TRENDELrel. 27, Created)			
DT	05-JUL-2004 (TRENDELrel. 27, Last sequence update)			
DT	05-JUL-2004 (TRENDELrel. 27, Last annotation update)			
DE	HRP0773.			
CN	ORFNames=UNQ773;			
OS	Homo sapiens (human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_TaxId=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;			
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,			
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,			
RA	Falcon D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,			
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,			
RA	Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,			
RA	Seehagiri S., Simmons B., Singh V., Smith V., Stinson J., Vagts A.,			
RA	Vanclen R., Watanabe C., Wleand D., Woods K., Xie M.H., Yansura D.,			
RA	Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,			
RA	Godowski P.;			
RT	"The secreted protein discovery initiative (SPDI), a large-scale			
RT	effort to identify novel human secreted and transmembrane proteins: a			
RT	bioinformatics assessment."			
RL	Genome Res. 13:2265-2270(2003).			
DR	EMBL; AY359021; AA089380.1; -			
DR	InterPro; IPR01229; Jaccalin_1eccln.			
SQ	SEQUENCE 178 AA; 19600 MW; BEDF3CCE69021A29 CRC64;			
Query Match	99.7%; Score 933; DB 2; Length 178;			
Best Local Similarity	99.4%; Pred. No. 3.6e-81;			
Matches 177;	Conservative 1; Mismatches 0; Indels 0; Gaps 0			
QY	1 MHRPEAMLLLTLLTLLGPTWAGRMYPGGGKYSTTEDYDHEITGLRVSVGLLVKSVQ 60			
DB	1 MHRPEAMLLLTLLTLLGPTWAGRMYPGGGKYSTTEDYDHEITGLRVSVGLLVKSVQ 60			
QY	61 VKLGDSMDVKLGALGAGNTQEVTLTPGEYITIKVFAFPAFAGGVNYSKDRYFFPKLDG 120			
DB	61 VKLGDSMDVKLGALGAGNTQEVTLTPGEYITIKVFAFPAFAGGVNYSKDRYFFPKLDG 120			
QY	121 QISSAYVSOBQGVNGLYGVQVLLGISIGSENNYPLEEPTTEPPVNLTVASNPVGR 178			
DB	121 QISSAYVSOBQGVNGLYGVQVLLGISIGSENNYPLEEPTTEPPVNLTVASNPVGR 178			
RESULT 2				
ID	Q96DA0	PRELIMINARY;	PRT;	172 AA.
AC	Q96DA0;			

```
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Similar to common salivary protein 1.
GN Name=LOC124220;
OC Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loggellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McWay P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahay J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butlerfield Y.S.,
RA Krzywinski M.I., Skalska U., Smalish D.E., Scherch A., Schein J.E.,
RA Jones S.J., Maier M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[2]
RN SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Strausberg R.;
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC009722; AAR09722.1; -
DR InterPro; IPR001229; Jaccalin_lectin.
SQ SEQUENCE 172 AA; 18879 MW; BC34ADFB33A99AEF CRC64;

Query Match 96.4%; Score 899; DB 2; Length 172;
Best Local Similarity 99.4%; Pred. No. 6,3e-78;
Matches 171; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 7 MLLLTLLALGPTWAGKMGPGGKXFTTEDYDHEITGLRVSGLLVKSVQVRLGDS 66
   |||||
   1 MLLLTLLALGPTWAGKMGPGGKXFTTEDYDHEITGLRVSGLLVKSVQVRLGDS 60
   |||||

QY 67 WDVYKLGALGNTQEVTLQPEBYITKVFVAQAFIRGVMTSDRYRYREKLDGQISSAY 126
   |||||
   61 WDVYKLGALGNTQEVTLQPEBYITKVFVAQAFIRGVMTSDRYRYREKLDGQISSAY 120
   |||||

QY 127 PSQGGVVLVIGYQYQLGKISIGFEMNYPLEBPTTPEPNLITFSANSPYGR 178
   |||||
   121 PSQGGVVLVIGYQYQLGKISIGFEMNYPLEBPTTPEPNLITFSANSPYGR 172
   |||||

RESULT 3
060844 PRELIMINARY; PRT; 167 AA.
ID 060844;
AC 060844;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Homolog of rat zymogen granule membrane protein (ZG16p) (Zymogen
DE granule protein 16).
GN Name=ZG16p;
OS Homo sapiens (human).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
```

```
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Colon;
RX MEDLINE=99425270; PubMed=10493829; DOI=10.1006/geno.1999.5927;
RA Loftus B.J., Kim U.J., Sneddon V.P., Kalush F., Brandon R.,
RA Fuhrmann J., Mason T., Crosby M.L., Barnstead M., Crohn L.,
RA Deslattes Mays A., Cao Y., Xu R.X., Kang H.L., Mitchell S.,
RA Eichler E.E., Harris P.C., Venter J.C., Adams M.D.;
RT "Genome duplications and other features in 12 Mb of DNA sequence from
RT human chromosome 16p and 16q."
RL Genomics 60:295-308(1999).
[2]
RN SEQUENCE FROM N.A.
RC TISSUE=Colon;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loggellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McWay P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahay J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butlerfield Y.S.,
RA Krzywinski M.I., Skalska U., Smalish D.E., Scherch A., Schein J.E.,
RA Jones S.J., Maier M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[4]
RN SEQUENCE FROM N.A.
RC TISSUE=Colon;
RA Strausberg R.;
RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC002301; AAC08708.1; -
DR EMBL; AB029813; BAC20361.1; -
DR EMBL; BC029149; AAR29149.1; -
DR HSSP; P18670; IUGX.
DR InterPro; IPR001229; Jaccalin_lectin.
DR Pfam; PF01419; Jaccalin; 1.
SQ SEQUENCE 167 AA; 18177 MW; FAABCE14FCECEAF CRC64;

Query Match 21.7%; Score 203; DB 2; Length 167;
Best Local Similarity 34.4%; Pred. No. 2.6e-11;
Matches 56; Conservative 25; Mismatches 64; Indels 18; Gaps 5;

QY 10 LITLALIG-----GPTWAGKMGPGGKXYS-TTEDYDHEITGLRVSGLL 54
   :|||
   1 MLTVALALICASASNAIQARSSYSGE-YSGGGKRSHGNOIDGPTTLRLRVNTY 59
   :|||

QY 55 LVKSVQVRLGDSMDVYKLGALGNTQEVTLQPEBYITKVFVAQAFIRGVMTSDRYRY 114
   :|||
   60 YIVGLQVRGKXWSDYVGGGRNDLEIFLHPESYIVQVGKXKWLKLVFTDKGRYLS 119
   :|||

QY 115 FGKLDGQISSAYPSQGGVVLVIGYQYQLGKISIGFEMN-YP 156
   |||||
   120 FGKDSGTSFNAVPLHNTVLRIFISGRSGL-IDAIGLHWDVYP 161
   |||||

RESULT 4
063015 PRELIMINARY; PRT; 159 AA.
ID 063015;
AC 063015;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
```

DT 01-NOV-1996 (TREMBlrel. 01, last sequence update)
 DT 01-OCT-2003 (TREMBlrel. 25, last annotation update)
 DE Common salivary protein 1 precursor.
 OS Rattus norvegicus (Rat).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 ON NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Sprague-Dawley; TISSUE=Parotid gland;
 RX MEDLINE=94075351; PubMed=8253789;
 RA Girard L.R., Castle A.M., Hand A.R., Castle J.D., Mirels L.;
 RT "Characterization of common salivary protein 1, a product of rat
 submandibular, sublingual and parotid glands."
 RL J. Biol. Chem. 268:26592-26601(1993).
 DR EMBL; U00964; AAA16140.1; -.
 DR PIR; A49685; A49685.
 DR InterPro; IPR001229; Jacalin_lectin.
 KW Signal.
 FT SIGNAL.
 FT CHAIN 1 17 Potential.
 FT 18 159 common salivary protein 1 (secreted
 FT SEQUENCE 159 AA; 17639 MW; BD12860A68E25492 CRC64;
 SO
 Query Match 19.6%; Score 183.5; DB 2; Length 159;
 Best Local Similarity 30.0%; Pred. No. 1.8e-09;
 Matches 45; Conservative 29; Mismatches 73; Indels 3; Gaps 2;
 Oy 7 MLLLTLLALGGPT--WAGKMYGPGGKYPFTTDDYDHEITGLRVSGLLVKSQVVLG 64
 Db 1 MLPLILIAFLGTPAVLTQSRHSGSETGKHFICVAPESGPTVIMASLKNLISRLKFG 60
 Oy 65 DSWDKALGALGNTQEVTLQPGYITTKYFVAFQAFLRGVMTSKDRYFYGKLDGQ-IS 123
 Db 61 NNMSEYVSSGRARIEVLNDEITVLGFGSGFYFMHQIITTSQPRELIIIGPLTGRYV 120
 Oy 124 SAYPSQEGVLVGIYGOYLLGKISIGFEM 153
 Db 121 TSPENPNHVRGICGYVTGSLKGMRYLM 150
 RESULT 5
 O8KOC5 PRELIMINARY; PRT; 167 AA.
 AC O8KOC5;
 DT 01-OCT-2002 (TREMBlrel. 22, Created)
 DT 01-OCT-2002 (TREMBlrel. 22, last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, last annotation update)
 DE Zymogen granule membrane protein 16.
 GN Name=1810010M01R1k;
 OS Mus musculus (Mouse).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ON NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Colon;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Sherman C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.B.,
 RA Brownstein M.J., Usciti T.B., Toshikiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny K.C., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Foley J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield V.S.,

RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerch A., Schein J.B.,
 RA Jones S.J., Maira M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Colon;
 RA Strauberg R.;
 RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC031800; AAA31800.1; -.
 DR HSSP; Q9ZQY5; 1C3K.
 DR MGD; MGI:1916286; 1810010M01R1K.
 DR InterPro; IPR001229; Jacalin_lectin.
 DR Pfam; PF01419; Jacalin_1.
 DR SEQUENCE 167 AA; 18209 MW; CID42C5468B86475 CRC64;
 SO
 Query Match 19.0%; Score 177.5; DB 2; Length 167;
 Best Local Similarity 30.9%; Pred. No. 7.2e-09;
 Matches 50; Conservative 24; Mismatches 75; Indels 13; Gaps 4;
 Oy 7 MLLLTLLALGGPTWAGK-----YGGGKYPFS-TTDDYDHEITGLRVSGLL 55
 Db 1 MLAVALLVLCAASANSISIGRTSSYSGEYGGKGFSSHGNDLDPITAFIRIVRRY 60
 Oy 56 VKSQVVLGDSWDVKLALGNTQEVTLQPGYITTKYFVAFQAFLRGVMTSKDRYFYF 115
 Db 61 IVGLQVRYGVMSDYVGQGDLEIFLHPDESIVQVSGKYSYVKOMIFVTDKGRYLPF 120
 Oy 116 GKLDGQISSAYPSQEGVLVGIYGOYLLGKISIGFEMN-YP 156
 Db 121 GKASGTSPNAVPLHPNTVLRFTSGR-SGSAIDSLHMDIYP 161
 RESULT 6
 O8CD3 PRELIMINARY; PRT; 167 AA.
 AC O8CD3;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, last sequence update)
 DT 01-JUN-2003 (TREMBlrel. 24, last annotation update)
 DE ZG16 protein.
 GN Name=ZG16;
 OS Rattus norvegicus (Rat).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 ON NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Matsuda Y., Kojima-Aikawa K.;
 RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AB095177; BAC24023.1; -.
 DR HSSP; P18670; 1M26.
 DR InterPro; IPR001229; Jacalin_lectin.
 DR Pfam; PF01419; Jacalin_1.
 DR SEQUENCE 167 AA; 18212 MW; SC210CD2C1220CF2 CRC64;
 SO
 Query Match 18.3%; Score 171.5; DB 2; Length 167;
 Best Local Similarity 30.2%; Pred. No. 2.7e-08;
 Matches 49; Conservative 26; Mismatches 74; Indels 13; Gaps 4;
 Oy 7 MLLLTLLALGGPTWAGK-----YGGGKYPFS-TTDDYDHEITGLRVSGLL 55
 Db 1 MLATALLVLCAASANSISIRSSYSGEYGGKGFSSHGNDLDPITAIRIVRRY 60
 Oy 56 VKSQVVLGDSWDVKLALGNTQEVTLQPGYITTKYFVAFQAFLRGVMTSKDRYFYF 115
 Db 61 IIVGLQVRYGVMSDYVGQGDLEIFLHPDESIVQVSGKYSYVKQIFVTDKGRYLPF 120
 Oy 116 GKLDGQISSAYPSQEGVLVGIYGOYLLGKISIGFEMN-YP 156
 Db 121 GKDSGTSPNAVPLHPNTVLRFTSGR-SGSAIDSLHMDIYP 161

DE enrich2 library, clone:2310040x20 product:spermine binding protein,
DE full insert sequence) (Mus musculus adult male tongue cDNA, RIKEN
DE full-length enriched library, clone:2310042L22 product:spermine
DE binding protein, full insert sequence) (Mus musculus adult male tongue
DE cDNA, RIKEN full-length enriched library, clone:2310042N22
DE product:spermine binding protein, full insert sequence) (Mus musculus
DE adult male tongue cDNA, RIKEN full-length enriched library,
DE clone:2310046E24 product:spermine binding protein, full insert
DE sequence) (Mus musculus adult male tongue cDNA, RIKEN full-length
DE enriched library, clone:2310050K24 product:spermine binding protein,
DE full insert sequence) (Mus musculus adult male tongue cDNA, RIKEN
DE full-length enriched library, clone:2310058I05 product:spermine
DE binding protein, full insert sequence) (Mus musculus adult male tongue
DE cDNA, RIKEN full-length enriched library, clone:231006K21
DE product:spermine binding protein, full insert sequence).
DE Name:Sbp;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euteleota; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Tongue;
RX MEDLINE=99279253; PubMed=10349666; DOI=10.1016/S0076-6879(99)03004-9;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection";
RL Nature 409:685-690(2001).
[2]
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Tongue;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection";
RL Nature 409:685-690(2001).
[3]
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Tongue;
RA The RIKEN Consortium,
RT "Analysis of the mouse transcriptome based on functional annotation of
RL 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
[4]
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Tongue;
RX MEDLINE=00499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Komoto H., Okazaki Y., Muramatsu M., Hayashizaki Y.,
RT "Normalization and substructure of cap-trapper-selected cDNAs to
RL prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
[5]
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Tongue;
RX MEDLINE=20530913; PubMed=11076661; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Komoto H., Akiyama Y., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishino T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kasaiwagi K.,
RA Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsushita S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.,
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RL sequencing pipeline with 384 multichannel sequencer.";
RL Genome Res. 10:1757-1771(2000).
[6]
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Tongue;
RA Adachi J., Aizawa K., Akhita S., Akimura T., Arai A., Aono H.,
RA Aikawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hirooka T., Hori F.,
RA Imotoi T., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Komoto H., Konda M., Koya S., Kurihara C.,

RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Nunazaki R., Ohno M.,
RA Okazaki Y., Okido T., Ota C., Saio H., Saico R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
RA Sugabe Y., Suzuki H., Tagami M., Tagawa M., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2000) to the EMBL/genbank/DDBL databases.

```

RL   EMBL; AK010237; BAB26788.1; -
DR   EMBL; AK009376; BAB26252.1; -
DR   EMBL; AK009398; BAB26264.1; -
DR   EMBL; AK009406; BAB26269.1; -
DR   EMBL; AK009446; BAB26292.1; -
DR   EMBL; AK009467; BAB26307.1; -
DR   EMBL; AK009489; BAB26320.1; -
DR   EMBL; AK009509; BAB26329.1; -
DR   EMBL; AK009539; BAB26347.1; -
DR   EMBL; AK009553; BAB26354.1; -
DR   EMBL; AK009598; BAB26383.1; -
DR   EMBL; AK009609; BAB26390.1; -
DR   EMBL; AK009613; BAB26393.1; -
DR   EMBL; AK009627; BAB26399.1; -
DR   EMBL; AK009630; BAB26402.1; -
DR   EMBL; AK009633; BAB26403.1; -
DR   EMBL; AK009647; BAB26412.1; -
DR   EMBL; AK009712; BAB26457.1; -
DR   EMBL; AK009758; BAB26482.1; -
DR   EMBL; AK009761; BAB26485.1; -
DR   EMBL; AK009845; BAB26540.1; -
DR   EMBL; AK009910; BAB26579.1; -
DR   EMBL; AK009982; BAB26625.1; -
DR   EMBL; AK010076; BAB26685.1; -
DR   EMBL; AK010078; BAB26686.1; -
DR   EMBL; AK010083; BAB26690.1; -
DR   EMBL; AK010102; BAB26702.1; -
DR   EMBL; AK010114; BAB26709.1; -
DR   EMBL; AK010189; BAB26756.1; -
DR   EMBL; AK010216; BAB26772.1; -
DR   EMBL; AK010221; BAB26776.1; -
DR   HSSP; P18674; 1JOT.
DR   MGDP; MGI:106021; Shp.
DR   InterPro; IPR001229; Jacalin_lectin.
DR   Pfam; PF01419; Jacalin; 1.
SQ   SEQUENCE    217 AA; 24034 MW; FC01D33BBF9A56DC CRC64;

Query Match      17.7%; Score 165.5; DB 2; Length 217;
Best Local Similarity 30.8%; Pred. No. 14e-07;
Matches 52; Conservative 29; Mismatches 73; Indels 15; Gaps 6

Cy 7 MLTLTLLALGPPW-AQKMYGGPGGKFTTEDYDHETIGLRVSGVL-LVKSVOVKLG 64
Db 1 MLTLTLLALLASPTCRANLVGNNAAGKFYYVGEGDGGLCKGRIFLSVRFKIPGLQRG 60
Cy 65 DSMVDKLGALCGANTOEVTLPQGEYTKYFVAFOAFILRGVMYTSKDRIFFPKLDGIS 124
Db 61 NNMTWDVVGSRSDFNFDLFLEDEGEHVIKYEGSAYVICLTSTTFNNKGAVATFGRRGR--- 117
Cy 125 AVPSQEG---QLVGVIGGYQL-DGKISGFPEW-----NYPLEPPTTP 164
Db 118 -YFSDDGSDKHLTVNGMHAAPGLCVTGMGFKMEDNAKLDSPEPVKEP 165
```

RESULT 9
C9D6Y8 PRELIMINARY; PRT; 217 AA.
AC Q9D6Y8;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
DE Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2110045106 product:spermene binding protein, full insert sequence.
DE Name=Sbp;
OS Mus musculus (Mouse).

RL Genome Res. 10:1757-1771 (2000).

RN [6]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,

RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,

RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,

RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,

RA Kawai J., Kojima Y., Kono H., Kouda M., Koya S., Kurihara C.,

RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,

RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,

RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,

RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,

RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,

RA Muramatsu M., Hayashizaki Y.;

RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.

DR EMBL; AK009792; BAB26507.1; -

DR HSSP; P18674; IJOT.

DR MGD; MGI:106021; Sbp.

DR InterPro; IPR001229; Jacalin_lectin.

DR Pfam; PF01419; Jacalin.1.

SQ SEQUENCE 217 AA; 2406 MW; DC065BDAFE9E4422 CRC64;

Query Match 17.7%; Score 165.5; DB 2; Length 217;

Best Local Similarity 30.8%; Pred. No. 1.4e-07;

Matches 52; Conservative 29; Mismatches 73; Indels 15; Gaps 6;

Qy 7 MLLLTTLALGGPTW-AGKMYPGGKGFSTTEYDHEITGLRVSVGLL-LVKSQVYKLG 64

Db 1 MLLLTTLALASPTCRANVGNAGKFFVYQGEHQGLKGRIFLSVFNFKRGQLQFG 60

Qy 65 DSWDVKLGALGNTQEVTLQPGGYITTKYFAFAFLRGVWMTSKDRYFYFGKLDGQISS 124

Db 61 NNMTDVYGSRSNDNFDLFLBEGEHVIVKGSVAVICLSLFTPTNKGRAVATGVRGR--- 117

Qy 125 AYPQSEG--GVLVGIYQYQL-LGKISIGPEW-----NYPLEBPTTEP 164

Db 118 -YFSDTGSGDKHLTVVNGMHAPGLCVTGMGFKMEDNAKDLGPPEVKEP 165

RESULT 11

Q9D7C7 PRELIMINARY; PRT; 217 AA.

AC Q9D7C7;

DT 01-JUN-2001 (TRENBLrel. 17, Created)

DT 01-JUN-2001 (TRENBLrel. 17, Last sequence update)

DT 01-OCT-2002 (TRENBLrel. 22, Last annotation update)

DE Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310015B1.9 product:spermine binding protein, full insert sequence.

DE Name:Sbp;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxId=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RC MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;

RA Carninci P., Hayashizaki Y.;

RL "High-efficiency full-length cDNA cloning.";

RL Meth. Enzymol. 303:19-44(1999).

RN [2]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RC MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;

RA RIKEN FANTOM Consortium;

RL "Functional annotation of a full-length mouse cDNA collection.";

RL Nature 409:685-690(2001).

RN [3]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RA The FANTOM Consortium;

RA the RIKEN Genome Exploration Research Group Phase I & II Team;

RT "Analysis of the mouse transcriptome based on functional annotation of

RL 60,770 full-length cDNAs.";

RL Nature 420:563-573(2002).

RN [4]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RC MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;

RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,

RA Kono H., Okazaki Y., Muramatsu M., Hayashizaki Y.;

RT "Normalization and subtraction of cap-trapper-selected cDNAs to

RL prepare full-length cDNA libraries for rapid discovery of new genes.";

RL Genome Res. 10:1617-1630(2000).

RN [5]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RC MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

RA Shibata K., Itoh M., Aizawa K., Nagaoaka S., Sasaki N., Carninci P.,

RA Kono H., Akiyama J., Nishi K., Kitajima T., Tashiro H., Itoh M.,

RA Suni N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,

RA Yamamoto K., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,

RA Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,

RA Yoneda Y., Iehikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,

RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

RT "RIKEN integrated sequence analysis (RISA) system-384-format

RT sequencing pipeline with 384 multicapillary sequencer.";

RL Genome Res. 10:1757-1771(2000).

RN [6]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Tongue;

RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,

RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,

RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,

RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,

RA Kawai J., Kojima Y., Kono H., Kouda M., Koya S., Kurihara C.,

RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,

RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,

RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,

RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,

RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,

RA Muramatsu M., Hayashizaki Y.;

RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.

DR EMBL; AK009356; BAB26237.1; -

DR HSSP; P18674; IJOT.

DR MGD; MGI:106021; Sbp.

DR InterPro; IPR001229; Jacalin_lectin.

DR Pfam; PF01419; Jacalin.1.

SQ SEQUENCE 217 AA; 24044 MW; FC01D338BC9A55DE CRC64;

Query Match 17.7%; Score 165.5; DB 2; Length 217;

Best Local Similarity 30.8%; Pred. No. 1.4e-07;

Matches 52; Conservative 29; Mismatches 73; Indels 15; Gaps 6;

Qy 7 MLLLTTLALGGPTW-AGKMYPGGKGFSTTEYDHEITGLRVSVGLL-LVKSQVYKLG 64

Db 1 MLLLTTLALASPTCRANVGNAGKFFVYQGEHQGLKGRIFLSVFNFKRGQLQFG 60

Qy 65 DSWDVKLGALGNTQEVTLQPGGYITTKYFAFAFLRGVWMTSKDRYFYFGKLDGQISS 124

Db 61 NNMTDVYGSRSNDNFDLFLBEGEHVIVKGSVAVICLSLFTPTNKGRAVATGVRGR--- 117

Qy 125 AYPQSEG--GVLVGIYQYQL-LGKISIGPEW-----NYPLEBPTTEP 164

Db 118 -YFSDTGSGDKHLTVVNGMHAPGLCVTGMGFKMEDNAKDLGPPEVKEP 165

RESULT 12

SPBP_RAT STANDARD; PRT; 279 AA.

AC P08723;

DT 01-AUG-1988 (Rel. 08, Created)

DT 01-AUG-1988 (Rel. 08, Last sequence update)

DT 05-JUL-2004 (Rel. 44, Last annotation update)

DE Prostatic spermine-binding protein precursor (SBP).
 GN Name=Sbp;
 ON Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 DE NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=87137538; PubMed=3818623;
 RA Chang C., Saltzman A.G., Hlipacka R.A., Huang I.-Y., Liao S.;
 RT "Prostatic spermine-binding protein. Cloning and nucleotide sequence
 of cDNA, amino acid sequence, and androgenic control of mRNA level.";
 RL J. Biol. Chem. 262:2826-2831(1987).
 RP [2]
 RP SEQUENCE, AND REVISIONS.
 RX MEDLINE=89000602; PubMed=3166977;
 RA Anderegg R.J., Carr S.A., Huang I.-Y., Hlipacka R.A., Chang C.,
 Liao S.;
 RT "Correction of the cDNA-derived protein sequence of prostatic spermine
 binding protein: pivotal role of tandem mass spectrometry in sequence
 analysis.";
 RL Biochemistry 27:4214-4221(1988).
 CC -1- FUNCTION: Spermine-binding protein is an androgen regulated
 ventral prostate glycoprotein that binds various polyamines.
 CC -1- TISSUE SPECIFICITY: Prostate.
 CC -1- SIMILARITY: To mouse SBP.
 CC -----
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb.ch/announce/>
 or send an email to license@isb.ch).

CC DR EMBL, J02675; AAA42113.1; ALT_SEQ.
 CC DR PIR, A29561; A29561.
 CC DR RGD, 3623; Sbp.
 CC DR InterPro, IPR001229; Jacalin_lectin.
 CC DR Pfam, PF01419; Jacalin; 1.
 CC KW Direct protein sequencing; Glycoprotein; Pyrrolidone carboxylic acid;
 KW Signal.
 FT SIGNAL 1 17
 FT CHAIN 18 279 prostatic spermine-binding protein.
 FT MOD RES 18 18 Pyrrolidone carboxylic acid.
 FT CARBOHYD 62 62 N-linked (GlcNAc...)
 FT DOMAIN 154 279 Asp/Glu-rich (acidic).
 FT SEQUENCE 279 AA; 31080 MW; 3BB01A02A517A65 CRC64;

Query Match 17.6%; Score 165; DB 1; Length 279;
 Best Local Similarity 31.3%; Pred. No. 2e-07;
 Matches 47; Conservative 30; Mismatches 69; Indels 4; Gaps 4;

QY 7 MLLLTLLALIGPTW-AGKRYGEGGKYFSTEDYHETGLRVSGLL-LVKSVOYKLG 64
 Db 1 MLLLTLLALIGPTCAQNTILGNVGVGYFVAGEHEHQLRGIRFLFLVILDLIKGIQLRF 60
 QY 65 DSDVDYKLGALGNTQOETLDPGEVITVFAFAQFLGVMYMSKDYFFGKLDGOISS 124
 Db 61 GMSDVGYSRSLKYEFLLEDGEHVTVOGSTRKCLTSLSTTNKGVVTFGVRG-LSF 119
 QY 125 AYSQEGOVHVGIGYQL-LGIKISGFEPW 153
 Db 120 NESGSGSKYLVTVNGVLAPGLCLNGMGFKM 149

RESULT 13
 Q9CPP3 PRELIMINARY; PRT; 217 AA.
 AC G9CPP3
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)

DE Mus musculus adult male tongue cDNA, RIKEN full-length enriched
 DE library, clone:2310075A13 product:spermine binding protein, full-
 DE insert sequence (Mus musculus adult male tongue cDNA, RIKEN full-
 DE length enriched library, clone:2310024P22 product:spermine binding
 DE protein, full insert sequence).
 GN Name=Sbp;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 DE NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Tongue;
 RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
 RA Carninci P., Hayashizaki Y.;
 RT "High-efficiency full-length cDNA cloning.";
 RL Meth. Enzymol. 303:19-44(1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Tongue;
 RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
 RA RIKEN FANTOM Consortium;
 RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690(2001).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Tongue;
 RA The FANTOM Consortium;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 60,770 full-length cDNAs.";
 RL Nature 420:563-573(2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Tongue;
 RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
 RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
 RA Kono H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
 RT "Normalization and subtraction of cap-trapper-selected cDNAs to
 RT prepare full-length cDNA libraries for rapid discovery of new genes.";
 RL Genome Res. 10:1617-1630(2000).
 RN [5]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Tongue;
 RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
 RA Shibata K., Itoh M., Aizawa K., Nagao S., Sasaki N., Carninci P.,
 RA Kono H., Akiyama J., Nishi K., Kikunai T., Tachio H., Itoh M.,
 RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
 RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
 RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
 RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
 RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
 RT "RIKEN integrated sequence analysis (RISA) system-384-format
 RT sequencing pipeline with 384 multicapillary sequencer.";
 RL Genome Res. 10:1757-1771(2000).
 RN [6]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Tongue;
 RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
 RA Atakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
 RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hirooka T., Hori F.,
 RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
 RA Kawai J., Kojima Y., Kono H., Kouda M., Koya S., Kurihara C.,
 RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Nunazaki R., Ohno M.,
 RA Okazaki Y., Okido T., Owa C., Saio H., Saio R., Sakai C., Sakai K.,
 RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
 RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
 RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
 RA Muramatsu M., Hayashizaki Y.;
 RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL, AK010161; BAB26740.1; -;
 DR EMBL, AK009501; BAB26327.1; -;
 DR HSPF, P18674; 1JOT.

```

Query Match      17.1%; Score 160; DB 1; Length 199;
Best Local Similarity 31.4%; Pred. No. 4.1e-07;
Matches 48; Conservative 26; Mismatches 69; Indels 10; Gaps 5;

OY 7 MLLLTLLALGGPFW-AGKMYGPGGKGFSTETEDYDHETGLRARSVGLL-LVKSQVQVLS 64
|||||  |||  |||  |||  |||  :  ::  ::  ::  :  :  ::

```

Db 1 MLLLTTLAFLASPTCRAQNVLGNAAGKXYFYOGEDQQLKMRIFLSVFKIFGQLOFG 60
QY 65 DSNVDVTLGALGNTQEVTLQPGEXYTKVFAFQAFILRGVMTSKDRYFYEGLDQISS 124
Db 61 SNMTDYYGTRSDNPIIDPLEDGEHVILKVGSAVICLTSLTFTTKGRVATFGVRGR--- 117
QY 125 AYPSEGG---QVLVGIYGYQL-LGIKSIGFEW 153
Db 118 -YFSDTGGSDKHLVTVNGMHAPGLCVRGIGFKW 149

Search completed: May 9, 2005, 21:22:43
Job time : 182 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 9, 2005, 21:22:49 ; Search time 136 Seconds
(without alignments)
436.622 Million cell updates/sec

Title: US-10-054-976-2

Perfect score: 936
Sequence: 1 MRRPEMLLLITALLGPT.....EPTTPEPVLLTYSANSPVGR 178

Scoring table: BLOSUM62
Gapop 10.0 , Gapept 0.5

Searched: 1428581 seqs, 33598853 residues

Total number of hits satisfying chosen parameters: 1428581

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	936	100.0	178	14	US-10-054-976-2
2	933	99.7	178	10	US-09-946-374-383
3	933	99.7	178	11	US-09-833-245-1657
4	933	99.7	178	13	US-10-052-586-464
5	933	99.7	178	14	US-10-174-590-464
6	933	99.7	178	14	US-10-176-758-464
7	933	99.7	178	14	US-10-175-737-464
8	933	99.7	178	14	US-10-174-581-464
9	933	99.7	178	14	US-10-176-483-464
10	933	99.7	178	14	US-10-176-914-464
11	933	99.7	178	14	US-10-176-914-464
12	933	99.7	178	14	US-10-176-915-464
13	933	99.7	178	14	US-10-173-706-464

14	933	99.7	178	14	US-10-175-738-464	Sequence 464, App
15	933	99.7	178	14	US-10-175-752-464	Sequence 464, App
16	933	99.7	178	14	US-10-176-482-464	Sequence 464, App
17	933	99.7	178	14	US-10-176-757-464	Sequence 464, App
18	933	99.7	178	14	US-10-176-913-464	Sequence 464, App
19	933	99.7	178	14	US-10-180-552-464	Sequence 464, App
20	933	99.7	178	14	US-10-180-557-464	Sequence 464, App
21	933	99.7	178	14	US-10-173-700-464	Sequence 464, App
22	933	99.7	178	14	US-10-174-572-464	Sequence 464, App
23	933	99.7	178	14	US-10-174-579-464	Sequence 464, App
24	933	99.7	178	14	US-10-174-582-464	Sequence 464, App
25	933	99.7	178	14	US-10-174-588-464	Sequence 464, App
26	933	99.7	178	14	US-10-175-739-464	Sequence 464, App
27	933	99.7	178	14	US-10-175-740-464	Sequence 464, App
28	933	99.7	178	14	US-10-175-743-464	Sequence 464, App
29	933	99.7	178	14	US-10-176-488-464	Sequence 464, App
30	933	99.7	178	14	US-10-176-492-464	Sequence 464, App
31	933	99.7	178	14	US-10-176-747-464	Sequence 464, App
32	933	99.7	178	14	US-10-176-750-464	Sequence 464, App
33	933	99.7	178	14	US-10-176-985-464	Sequence 464, App
34	933	99.7	178	14	US-10-176-987-464	Sequence 464, App
35	933	99.7	178	14	US-10-176-992-464	Sequence 464, App
36	933	99.7	178	14	US-10-176-993-464	Sequence 464, App
37	933	99.7	178	14	US-10-184-658-464	Sequence 464, App
38	933	99.7	178	14	US-10-176-991-464	Sequence 464, App
39	933	99.7	178	14	US-10-227-884-208	Sequence 208, App
40	933	99.7	178	14	US-10-173-695-464	Sequence 464, App
41	933	99.7	178	14	US-10-173-697-464	Sequence 464, App
42	933	99.7	178	14	US-10-173-705-464	Sequence 464, App
43	933	99.7	178	14	US-10-174-576-464	Sequence 464, App
44	933	99.7	178	14	US-10-174-585-464	Sequence 464, App
45	933	99.7	178	14	US-10-174-586-464	Sequence 464, App

ALIGNMENTS

RESULT 1
US-10-054-976-2
Sequence 2, Application US/10054976
Publication No. US20030050443A1
GENERAL INFORMATION:
APPLICANT: Endress, Gregory A.
TITLE OF INVENTION: Prostate Specific Secreted Protein
FILE REFERENCE: P457
CURRENT APPLICATION NUMBER: US/10/054,976
CURRENT FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/280,839
PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/080,311
PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/080,898
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 178
TYPE: PRT
ORGANISM: Homo sapiens
US-10-054-976-2
Query Match 100.0%; Score 936; DB 14; Length 178;
Best Local Similarity 100.0%; Pred. No. 3.5e-96;
Matches 178; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRRPEMLLLITALLGPTWAGKMGPGGKRFSTEDYDHTITGLRVSGLLVKSVQ 60
DB 1 MRRPEMLLLITALLGPTWAGKMGPGGKRFSTEDYDHTITGLRVSGLLVKSVQ 60
QY VKLGDSMDVYKGLAGNTQEVTLQPEYITKVAQAFARGVWMTSKDRYFFGLDQ 120
DB 61 VKLGDSMDVYKGLAGNTQEVTLQPEYITKVAQAFARGVWMTSKDRYFFGLDQ 120

PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102330
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102331
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102484
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102487
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102571
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102684
PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102687
PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102965
PRIOR FILING DATE: 1998-10-02
PRIOR APPLICATION NUMBER: 60/103258
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103314
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103315
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103328
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103395
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103396
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103401
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103449
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103633
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103678
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103711
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/104257
PRIOR FILING DATE: 1998-10-14
PRIOR APPLICATION NUMBER: 60/104987
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105000
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105104
PRIOR FILING DATE: 1998-10-21
PRIOR APPLICATION NUMBER: 60/105169
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105266
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807

Query Match 99.7%; Score 933; DB 10; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRPEAMLLLTLLALGGPTWAGMYGPGGKTFSTTDDHETITGLRVSVGLLVKSQ 60
DB 1 MHRPEAMLLLTLLALGGPTWAGMYGPGGKTFSTTDDHETITGLRVSVGLLVKSQ 60
QY 61 VKLGSMDVVLGALGNTQEVTLQPGYITTKVFVAFOAFLRGVMTSKDRYFFGKLDG 120

DB 61 VKLGSMDVVLGALGNTQEVTLQPGYITTKVFVAFOAFLRGVMTSKDRYFFGKLDG 120
QY 121 QISSAYPSQEGVVLVGIYGYQLGIKSGFENNYPLEEPTTTPPNULTYSANSPVGR 178
DB 121 QISSAYPSQEGVVLVGIYGYQLGIKSGFENNYPLEEPTTTPPNULTYSANSPVGR 178

RESULT 3
US-09-833-245-1657
Sequence 1657, Application US/09833245
Publication No. US20040010134A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF546PCT
CURRENT APPLICATION NUMBER: US/09/833,245
CURRENT FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229,358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256,931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199,384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1657
LENGTH: 178
TYPE: PRT
ORGANISM: Homo sapiens
US-09-833-245-1657

Query Match 99.7%; Score 933; DB 11; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRPEAMLLLTLLALGGPTWAGMYGPGGKTFSTTDDHETITGLRVSVGLLVKSQ 60
DB 1 MHRPEAMLLLTLLALGGPTWAGMYGPGGKTFSTTDDHETITGLRVSVGLLVKSQ 60
QY 61 VKLGSMDVVLGALGNTQEVTLQPGYITTKVFVAFOAFLRGVMTSKDRYFFGKLDG 120
DB 61 VKLGSMDVVLGALGNTQEVTLQPGYITTKVFVAFOAFLRGVMTSKDRYFFGKLDG 120
QY 121 QISSAYPSQEGVVLVGIYGYQLGIKSGFENNYPLEEPTTTPPNULTYSANSPVGR 178
DB 121 QISSAYPSQEGVVLVGIYGYQLGIKSGFENNYPLEEPTTTPPNULTYSANSPVGR 178
RESULT 4
US-10-052-586-464
Sequence 464, Application US/10052586
Publication No. US20020127584A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
ACIDS ENCODING THE SAME
FILE REFERENCE: P3430R1C1
CURRENT APPLICATION NUMBER: US/10/052,586
CURRENT FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059266
PRIOR FILING DATE: 1997-09-18

1	PRIOR APPLICATION NUMBER: 60/062250
2	PRIOR FILING DATE: 1997-10-17
3	PRIOR APPLICATION NUMBER: 60/063120
4	PRIOR FILING DATE: 1997-10-24
5	PRIOR APPLICATION NUMBER: 60/063121
6	PRIOR FILING DATE: 1997-10-24
7	PRIOR APPLICATION NUMBER: 60/063486
8	PRIOR FILING DATE: 1997-10-21
9	PRIOR APPLICATION NUMBER: 60/063540
10	PRIOR FILING DATE: 1997-10-28
11	PRIOR APPLICATION NUMBER: 60/063541
12	PRIOR FILING DATE: 1997-10-28
13	PRIOR APPLICATION NUMBER: 60/063544
14	PRIOR FILING DATE: 1997-10-28
15	PRIOR APPLICATION NUMBER: 60/063544
16	PRIOR FILING DATE: 1997-10-28
17	PRIOR APPLICATION NUMBER: 60/063564
18	PRIOR FILING DATE: 1997-10-28
19	PRIOR APPLICATION NUMBER: 60/063734
20	PRIOR FILING DATE: 1997-10-29
21	PRIOR APPLICATION NUMBER: 60/063870
22	PRIOR FILING DATE: 1997-10-31
23	PRIOR APPLICATION NUMBER: 60/064103
24	PRIOR FILING DATE: 1997-10-31
25	PRIOR APPLICATION NUMBER: 60/065311
26	PRIOR FILING DATE: 1997-11-13
27	PRIOR APPLICATION NUMBER: 60/066120
28	PRIOR FILING DATE: 1997-11-21
29	PRIOR APPLICATION NUMBER: 60/066466
30	PRIOR FILING DATE: 1997-11-24
31	PRIOR APPLICATION NUMBER: 60/066772
32	PRIOR FILING DATE: 1997-11-24
33	PRIOR APPLICATION NUMBER: 60/069335
34	PRIOR FILING DATE: 1997-12-11
35	PRIOR APPLICATION NUMBER: 60/069425
36	PRIOR FILING DATE: 1997-12-12
37	PRIOR APPLICATION NUMBER: 60/069870
38	PRIOR FILING DATE: 1997-12-17
39	PRIOR APPLICATION NUMBER: 60/068017
40	PRIOR FILING DATE: 1997-12-18
41	PRIOR APPLICATION NUMBER: 60/077450
42	PRIOR FILING DATE: 1998-03-10
43	PRIOR APPLICATION NUMBER: 60/077652
44	PRIOR FILING DATE: 1998-03-11
45	PRIOR APPLICATION NUMBER: 60/077649
46	PRIOR FILING DATE: 1998-03-11
47	PRIOR APPLICATION NUMBER: 60/078866
48	PRIOR FILING DATE: 1998-03-20
49	PRIOR APPLICATION NUMBER: 60/078939
50	PRIOR FILING DATE: 1998-03-20
51	PRIOR APPLICATION NUMBER: 60/079664
52	PRIOR FILING DATE: 1998-03-27
53	PRIOR APPLICATION NUMBER: 60/079786
54	PRIOR FILING DATE: 1998-03-27
55	PRIOR APPLICATION NUMBER: 60/080107
56	PRIOR FILING DATE: 1998-03-31
57	PRIOR APPLICATION NUMBER: 60/080194
58	PRIOR FILING DATE: 1998-03-31
59	PRIOR APPLICATION NUMBER: 60/080327
60	PRIOR FILING DATE: 1998-04-01
61	PRIOR APPLICATION NUMBER: 60/080333
62	PRIOR FILING DATE: 1998-04-01
63	PRIOR APPLICATION NUMBER: 60/080149
64	PRIOR FILING DATE: 1998-04-08
65	PRIOR APPLICATION NUMBER: 60/080170
66	PRIOR FILING DATE: 1998-04-08
67	PRIOR APPLICATION NUMBER: 60/081195
68	PRIOR FILING DATE: 1998-04-09
69	PRIOR APPLICATION NUMBER: 60/081838
70	PRIOR FILING DATE: 1998-04-15
71	PRIOR APPLICATION NUMBER: 60/082568
72	PRIOR FILING DATE: 1998-04-21
73	PRIOR APPLICATION NUMBER: 60/082569
74	PRIOR FILING DATE: 1998-04-21
75	PRIOR APPLICATION NUMBER: 60/082704

1	PRIOR	FILING DATE:	1998-04-22
2	PRIOR	APPLICATION NUMBER:	60/082797
3	PRIOR	FILING DATE:	1998-04-22
4	PRIOR	APPLICATION NUMBER:	60/083322
5	PRIOR	FILING DATE:	1998-04-28
6	PRIOR	APPLICATION NUMBER:	60/083495
7	PRIOR	FILING DATE:	1998-04-29
8	PRIOR	APPLICATION NUMBER:	60/083496
9	PRIOR	FILING DATE:	1998-04-29
10	PRIOR	APPLICATION NUMBER:	60/083459
11	PRIOR	FILING DATE:	1998-04-29
12	PRIOR	APPLICATION NUMBER:	60/083559
13	PRIOR	FILING DATE:	1998-04-29
14	PRIOR	APPLICATION NUMBER:	60/084366
15	PRIOR	FILING DATE:	1998-05-05
16	PRIOR	APPLICATION NUMBER:	60/084414
17	PRIOR	FILING DATE:	1998-05-06
18	PRIOR	APPLICATION NUMBER:	60/084639
19	PRIOR	FILING DATE:	1998-05-07
20	PRIOR	APPLICATION NUMBER:	60/084640
21	PRIOR	FILING DATE:	1998-05-07
22	PRIOR	APPLICATION NUMBER:	60/084643
23	PRIOR	FILING DATE:	1998-05-07
24	PRIOR	APPLICATION NUMBER:	60/085573
25	PRIOR	FILING DATE:	1998-05-15
26	PRIOR	APPLICATION NUMBER:	60/085579
27	PRIOR	FILING DATE:	1998-05-15
28	PRIOR	APPLICATION NUMBER:	60/085580
29	PRIOR	FILING DATE:	1998-05-15
30	PRIOR	APPLICATION NUMBER:	60/085582
31	PRIOR	FILING DATE:	1998-05-15
32	PRIOR	APPLICATION NUMBER:	60/085700
33	PRIOR	FILING DATE:	1998-05-15
34	PRIOR	APPLICATION NUMBER:	60/086023
35	PRIOR	FILING DATE:	1998-05-18
36	PRIOR	APPLICATION NUMBER:	60/086332
37	PRIOR	FILING DATE:	1998-05-22
38	PRIOR	APPLICATION NUMBER:	60/086486
39	PRIOR	FILING DATE:	1998-05-22
40	PRIOR	APPLICATION NUMBER:	60/087098
41	PRIOR	FILING DATE:	1998-05-28
42	PRIOR	APPLICATION NUMBER:	60/087208
43	PRIOR	FILING DATE:	1998-05-28
44	PRIOR	APPLICATION NUMBER:	60/087609
45	PRIOR	FILING DATE:	1998-06-02
46	PRIOR	APPLICATION NUMBER:	60/087759
47	PRIOR	FILING DATE:	1998-06-02
48	PRIOR	APPLICATION NUMBER:	60/087827
49	PRIOR	FILING DATE:	1998-06-03
50	PRIOR	APPLICATION NUMBER:	60/088025
51	PRIOR	FILING DATE:	1998-06-04
52	PRIOR	APPLICATION NUMBER:	60/088028
53	PRIOR	FILING DATE:	1998-06-04
54	PRIOR	APPLICATION NUMBER:	60/088029
55	PRIOR	FILING DATE:	1998-06-04
56	PRIOR	APPLICATION NUMBER:	60/088033
57	PRIOR	FILING DATE:	1998-06-04
58	PRIOR	APPLICATION NUMBER:	60/088167
59	PRIOR	FILING DATE:	1998-06-05
60	PRIOR	APPLICATION NUMBER:	60/088217
61	PRIOR	FILING DATE:	1998-06-05
62	PRIOR	APPLICATION NUMBER:	60/088202
63	PRIOR	FILING DATE:	1998-06-05
64	PRIOR	APPLICATION NUMBER:	60/088212
65	PRIOR	FILING DATE:	1998-06-05
66	PRIOR	APPLICATION NUMBER:	60/088217
67	PRIOR	FILING DATE:	1998-06-05
68	PRIOR	APPLICATION NUMBER:	60/088326
69	PRIOR	FILING DATE:	1998-06-04
70	PRIOR	APPLICATION NUMBER:	60/088655
71	PRIOR	FILING DATE:	1998-06-09
72	PRIOR	APPLICATION NUMBER:	60/088722
73	PRIOR	FILING DATE:	1998-06-10
74	PRIOR	APPLICATION NUMBER:	60/088738
75	PRIOR	FILING DATE:	1998-06-10

```

; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088811
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089908

```

```

Query Match          99.7%; Score 933; DB 13; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 MRRPEAMLLLTLLALGGPTWAGKMGPGGKXFTSTEDYDHEITGLRVSGLLVKVSQ 60
DB 1 MRRPEAMLLLTLLALGGPTWAGKMGPGGKXFTSTEDYDHEITGLRVSGLLVKVSQ 60
QY 61 VKLGDSDWVYKLGALGNTQEVTLQPEGYITKVFVAQAFKRGVMTSKDRYFFGKLDG 120
DB 61 VKLGDSDWVYKLGALGNTQEVTLQPEGYITKVFVAQAFKRGVMTSKDRYFFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYGOYOLLGKISGFENNYPLEBPTTBPVNLITYSANSPVGR 178
DB 121 QISSAYPSQEGQVLVGIYGOYOLLGKISGFENNYPLEBPTTBPVNLITYSANSPVGR 178

```

```

RESULT 5
US-10-174-590-464
; Sequence 464, Application US/10174590
; Publication No. US2003008353A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C42
; CURRENT APPLICATION NUMBER: US/10/174,590
; PRIOR FILING DATE: 2002-06-18
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464

```

```

; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-590-464

```

```

Query Match          99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 MRRPEAMLLLTLLALGGPTWAGKMGPGGKXFTSTEDYDHEITGLRVSGLLVKVSQ 60
DB 1 MRRPEAMLLLTLLALGGPTWAGKMGPGGKXFTSTEDYDHEITGLRVSGLLVKVSQ 60
QY 61 VKLGDSDWVYKLGALGNTQEVTLQPEGYITKVFVAQAFKRGVMTSKDRYFFGKLDG 120
DB 61 VKLGDSDWVYKLGALGNTQEVTLQPEGYITKVFVAQAFKRGVMTSKDRYFFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYGOYOLLGKISGFENNYPLEBPTTBPVNLITYSANSPVGR 178
DB 121 QISSAYPSQEGQVLVGIYGOYOLLGKISGFENNYPLEBPTTBPVNLITYSANSPVGR 178

```

```

RESULT 6
US-10-176-758-464
; Sequence 464, Application US/10176758
; Publication No. US2003008353A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C104
; CURRENT APPLICATION NUMBER: US/10/176,758
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-758-464

```

```

Query Match          99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 MRRPEAMLLLTLLALGGPTWAGKMGPGGKXFTSTEDYDHEITGLRVSGLLVKVSQ 60
DB 1 MRRPEAMLLLTLLALGGPTWAGKMGPGGKXFTSTEDYDHEITGLRVSGLLVKVSQ 60
QY 61 VKLGDSDWVYKLGALGNTQEVTLQPEGYITKVFVAQAFKRGVMTSKDRYFFGKLDG 120
DB 61 VKLGDSDWVYKLGALGNTQEVTLQPEGYITKVFVAQAFKRGVMTSKDRYFFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYGOYOLLGKISGFENNYPLEBPTTBPVNLITYSANSPVGR 178
DB 121 QISSAYPSQEGQVLVGIYGOYOLLGKISGFENNYPLEBPTTBPVNLITYSANSPVGR 178

```

```

RESULT 7
US-10-175-737-464
; Sequence 464, Application US/10175737
; Publication No. US2003008353A1
; GENERAL INFORMATION:

```

APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C50
CURRENT APPLICATION NUMBER: US/10/175,737
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 464
LENGTH: 178
TYPE: PRT
ORGANISM: Homo Sapien
US-10-175-737-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRPEMLLTLLALIGSTWAGKMGPGGKTFSTTEYDHEITGLRVSGLLVKVSQ 60
DB 1 MRRPEMLLTLLALIGSTWAGKMGPGGKTFSTTEYDHEITGLRVSGLLVKVSQ 60
QY 61 VVLGSDWVYKLGALGGNTQEVTLQPGSEYITKVFVAFOALRGVWYTSKDRFYFGKLDG 120
DB 61 VVLGSDWVYKLGALGGNTQEVTLQPGSEYITKVFVAFOALRGVWYTSKDRFYFGKLDG 120
QY 121 QISSAVPSQEGQVLVGIYQYQLGKISIGFEMWNYLSEPTTEPPVNLTYSANSPVGR 178
DB 121 QISSAVPSQEGQVLVGIYQYQLGKISIGFEMWNYLSEPTTEPPVNLTYSANSPVGR 178

RESULT 8
US-10-174-581-464
Sequence 464, Application US/10174581
Publication No. US20030017540A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C41
CURRENT APPLICATION NUMBER: US/10/174,581
CURRENT FILING DATE: 2002-06-18
PRIOR APPLICATION NUMBER: 10/052586
PRIOR FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059266
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063120
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063121

PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063486
PRIOR FILING DATE: 1997-10-21
PRIOR APPLICATION NUMBER: 60/063540
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063541
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063544
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063564
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063734
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063870
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066120
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066466
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066772
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069425
PRIOR FILING DATE: 1997-12-12
PRIOR APPLICATION NUMBER: 60/069870
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/068017
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28

```

      PRIOR FILING DATE: 1998-06-10
      PRIOR APPLICATION NUMBER: 60/088825
      PRIOR FILING DATE: 1998-06-10
      PRIOR APPLICATION NUMBER: 60/088826
      PRIOR FILING DATE: 1998-06-10
      PRIOR APPLICATION NUMBER: 60/088861
      PRIOR FILING DATE: 1998-06-11
      PRIOR APPLICATION NUMBER: 60/088863
      PRIOR FILING DATE: 1998-06-11
      PRIOR APPLICATION NUMBER: 60/088876
      PRIOR FILING DATE: 1998-06-11
      PRIOR APPLICATION NUMBER: 60/089090
      PRIOR FILING DATE: 1998-06-12
      PRIOR APPLICATION NUMBER: 60/089105
      PRIOR FILING DATE: 1998-06-12
      PRIOR APPLICATION NUMBER: 60/089512
      PRIOR FILING DATE: 1998-06-16
      PRIOR APPLICATION NUMBER: 60/089514
      PRIOR FILING DATE: 1998-06-16
      PRIOR APPLICATION NUMBER: 60/089538
      PRIOR FILING DATE: 1998-06-17
      PRIOR APPLICATION NUMBER: 60/089598
      PRIOR FILING DATE: 1998-06-17
      PRIOR APPLICATION NUMBER: 60/089653

Query Match      99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps

      QY      1 MHRPEAMLLLTLLALGGPTWAGKMYGGGKYPSTEDYDHEITGLAVSGLLVKSQ 6
      DB      1 MHRPEAMLLLTLLALGGPTWAGKMYGGGKYPSTEDYDHEITGLAVSGLLVKSQ 6
      QY      61 VKLGSMVVKLGALGNGNQETLDPGEYITKYFAFAQFLRGVWYTSKDRFYFGKLDG 1
      DB      61 VKLGSMVVKLGALGNGNQETLDPGEYITKYFAFAQFLRGVWYTSKDRFYFGKLDG 1
      QY      121 QISSAPSEQVVLGIVGYOYLLGKISIGFEMWYPLEEPTPEPVNLTYSANSPVGR 178
      DB      121 QISSAPSEQVVLGIVGYOYLLGKISIGFEMWYPLEEPTPEPVNLTYSANSPVGR 178

RESULT 9
US-10-176-483-464
; Sequence 464; Application US/10176483
; Publication No. US20030017541A1
GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deansoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C68
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-483-464

Query Match      99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps

```

```
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
  |||||
Db 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
QY 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
  |||||
Db 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178
  |||||
Db 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178

RESULT 10
US-10-176-749-464
; Sequence 464, Application US/10176749
; Publication No. US20030017542A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,749
; PRIOR FILING DATE: 2002-06-20
; Prior application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-749-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
  |||||
Db 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
QY 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
  |||||
Db 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178
  |||||
Db 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178

RESULT 11
US-10-176-914-464
; Sequence 464, Application US/10176914
; Publication No. US20030017543A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
US-10-176-914-464
```

```
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C83
; CURRENT APPLICATION NUMBER: US/10/176,914
; PRIOR FILING DATE: 2002-06-20
; Prior application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-914-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
  |||||
Db 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
QY 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
  |||||
Db 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178
  |||||
Db 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178

RESULT 12
US-10-176-915-464
; Sequence 464, Application US/10176915
; Publication No. US20030017544A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C110
; CURRENT APPLICATION NUMBER: US/10/176,915
; PRIOR FILING DATE: 2002-06-21
; Prior application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-915-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
  |||||
Db 1 MRPEAMLLLTALIGGPTWAGKMYGPGGKYSTTEDYDHEITGLRVSGLLVKSVQ 60
QY 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
  |||||
Db 61 VVLGSDWVKLGAAGNTQEVTLQPGEYITKVFVAFOAFLRGVWYTSKDRYFYFGKLDG 120
QY 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178
  |||||
Db 121 QISSAYPSQEGQVLVGIYQYQLGIKISIGFEMWYPLEEPTTPEPPVNLITYSANSPVGR 178
```

Db 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
QY 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178
Db 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178

RESULT 13
US-10-173-706-464

; Sequence 464, Application US/10173706
; Publication No. US2003002293A1
; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien

US-10-173-706-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRPEAMLLLTALGPGTWAGKMYGPGGKXFSTTEDYDHEITGLRVSVGLLVKSVQ 60
Db 1 MRRPEAMLLLTALGPGTWAGKMYGPGGKXFSTTEDYDHEITGLRVSVGLLVKSVQ 60
QY 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
Db 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
QY 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178
Db 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178

RESULT 14
US-10-175-738-464

; Sequence 464, Application US/10175738
; Publication No. US2003002294A1
; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C45
; CURRENT APPLICATION NUMBER: US/10/175,738

; CURRENT FILING DATE: 2002-06-19
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien

US-10-175-738-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRPEAMLLLTALGPGTWAGKMYGPGGKXFSTTEDYDHEITGLRVSVGLLVKSVQ 60
Db 1 MRRPEAMLLLTALGPGTWAGKMYGPGGKXFSTTEDYDHEITGLRVSVGLLVKSVQ 60
QY 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
Db 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
QY 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178
Db 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178

RESULT 15
US-10-175-752-464

; Sequence 464, Application US/10175752
; Publication No. US2003002295A1
; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C60
; CURRENT APPLICATION NUMBER: US/10/175,752
; CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 464
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Homo Sapien

US-10-175-752-464

Query Match 99.7%; Score 933; DB 14; Length 178;
Best Local Similarity 99.4%; Pred. No. 7.6e-96;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRPEAMLLLTALGPGTWAGKMYGPGGKXFSTTEDYDHEITGLRVSVGLLVKSVQ 60
Db 1 MRRPEAMLLLTALGPGTWAGKMYGPGGKXFSTTEDYDHEITGLRVSVGLLVKSVQ 60
QY 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
Db 61 VKLGSDMDVKGALGAGNTQEVTLQPGSEYITKVFVAFOAFLRGVMTSKDRYFPGKLDG 120
QY 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178
Db 121 QISSAYPSQGOVLVGIYGYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSSANSPVGR 178

Search completed: May 9, 2005, 21:35:35

Wed May 11 13:17:59 2005

us-10-054-976-2.rapb

Page 10

Job time : 141 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 9, 2005, 21:18:29 ; Search time 46 Seconds
(without alignments)

288.859 Million cell updates/sec

Title: US-10-054-976-2

Perfect score: 936
Sequence: 1 MHRPEMLLTLTALLGGPT.....EPTTEPVNLTYSANSPVGR 178

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	936	100.0	178	US-09-280-839-2	Sequence 2, Appli
2	933	99.7	178	US-09-081-180-2	Sequence 2, Appli
3	933	99.7	178	US-09-040-786-2	Sequence 2, Appli
4	929	99.3	178	US-09-247-155-85	Sequence 85, Appli
5	199	21.3	163	US-08-469-667-11	Sequence 11, Appli
6	199	21.3	163	US-09-224-110-11	Sequence 11, Appli
7	199	21.3	163	US-09-988-392A-11	Sequence 11, Appli
8	199	21.3	163	PCT-US95-07289-11	Sequence 11, Appli
9	192.5	20.6	166	US-09-081-180-4	Sequence 4, Appli
10	192.5	20.6	166	US-09-040-786-4	Sequence 4, Appli
11	183.5	19.6	159	US-09-280-839-3	Sequence 3, Appli
12	160	17.1	199	US-09-081-180-3	Sequence 3, Appli
13	160	17.1	199	US-09-040-786-3	Sequence 3, Appli
14	122.5	13.1	170	US-09-081-180-5	Sequence 5, Appli
15	122.5	13.1	170	US-09-040-786-5	Sequence 5, Appli
16	87	9.3	349	US-09-248-796A-17795	Sequence 17795, A
17	80.5	8.6	878	US-08-708-541A-26	Sequence 26, Appli
18	80.5	8.6	878	US-09-147-771-26	Sequence 26, Appli
19	79.5	8.5	208	US-09-252-991A-19606	Sequence 19606, A
20	79	8.4	15	US-09-081-180-6	Sequence 6, Appli
21	79	8.4	15	US-09-040-786-6	Sequence 6, Appli
22	79	8.4	314	US-09-107-532A-6547	Sequence 6547, Ap
23	78.5	8.4	279	US-09-134-001C-4900	Sequence 4900, Ap
24	78.5	8.4	451	US-09-949-016-7901	Sequence 7901, Ap
25	77	8.2	462	US-09-378-088A-82	Sequence 82, Appli
26	77	8.2	462	US-09-643-596B-82	Sequence 82, Appli
27	76.5	8.2	536	US-09-328-352-4689	Sequence 4689, Ap

28	76.5	8.2	752	4	US-09-543-681A-4518	Sequence 4518, Ap
29	75.5	8.1	790	3	US-08-817-707-8	Sequence 8, Appli
30	75.5	8.1	1070	4	US-09-653-274-8	Sequence 8, Appli
31	75.5	8.1	1070	4	US-10-461-791-8	Sequence 8, Appli
32	75.5	8.1	1086	4	US-09-653-274-4	Sequence 4, Appli
33	75.5	8.1	1086	4	US-10-461-791-4	Sequence 4, Appli
34	74	7.9	311	2	US-08-318-837-7	Sequence 7, Appli
35	74	7.9	382	4	US-09-489-039A-8196	Sequence 8196, Ap
36	73.5	7.9	707	4	US-09-266-965-101	Sequence 101, Ap
37	73	7.8	200	4	US-09-702-705-324	Sequence 324, Ap
38	73	7.8	200	4	US-09-702-705-789	Sequence 789, Ap
39	73	7.8	200	4	US-09-736-457-324	Sequence 324, Ap
40	73	7.8	200	4	US-09-736-457-789	Sequence 789, Ap
41	73	7.8	200	4	US-09-614-124B-324	Sequence 324, Ap
42	73	7.8	200	4	US-09-614-124B-789	Sequence 789, Ap
43	73	7.8	200	4	US-09-671-325-324	Sequence 324, Ap
44	73	7.8	200	4	US-09-671-325-789	Sequence 789, Ap
45	73	7.8	200	4	US-09-589-184-324	Sequence 324, Ap

ALIGNMENTS

RESULT 1		US-09-280-839-2	Sequence 2, Application US/09280839
		Patent No. 6365369	
		GENERAL INFORMATION:	
		APPLICANT: Endress, Gregory A.	
		APPLICANT: Rosen, Craig A.	
		TITLE OF INVENTION: Prostate Specific Secreted Protein	
		FILE REFERENCE: PF457	
		CURRENT APPLICATION NUMBER: US/09/280,839	
		CURRENT FILING DATE: 1999-03-30	
		EARLIER APPLICATION NUMBER: 60/080,311	
		EARLIER FILING DATE: 1998-04-01	
		EARLIER APPLICATION NUMBER: 60/080,898	
		EARLIER FILING DATE: 1998-04-07	
		NUMBER OF SEQ ID NOS: 15	
		SOFTWARE: Patentin Ver. 2.0	
		SEQ ID NO 2	
		LENGTH: 178	
		TYPE: PRT	
		ORGANISM: Homo sapiens	
		US-09-280-839-2	
		Query Match	100.0%; Score 936; DB 3; Length 178;
		Best Local Similarity	100.0%; Pred. No. 7.5e-103;
		Matches 178; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1	MHRPEMLLTLTALLGGPTWAGKMYGPGGKTFSTEDYDHEITGLRVSGILLVKSQ	60
DB	1	MHRPEMLLTLTALLGGPTWAGKMYGPGGKTFSTEDYDHEITGLRVSGILLVKSQ	60
QY	61	VKLGSDMDVGLGAGNTQEVTLQPGHYITKVVAQAFRGVYMTSKRRYFFGKLDG	120
DB	61	VKLGSDMDVGLGAGNTQEVTLQPGHYITKVVAQAFRGVYMTSKRRYFFGKLDG	120
QY	121	QISSAYPSQSGVAVNGVGYQLGKISGFENNYPLEEPTTEPVNLTYSANSPVGR	178
DB	121	QISSAYPSQSGVAVNGVGYQLGKISGFENNYPLEEPTTEPVNLTYSANSPVGR	178
RESULT 2		US-09-081-180-2	Sequence 2, Application US/09081180
		Patent No. 6022847	
		GENERAL INFORMATION:	
		APPLICANT: Shepard, Paul O.	
		TITLE OF INVENTION: SECRETED SALIVARY ZSIC32	
		TITLE OF INVENTION: POLYPEPTIDES	
		NUMBER OF SEQUENCES: 38	

```
/
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: ZymoGenetics
/ STREET: 1201 Eastlake Ave. E.
/ CITY: Seattle
/ STATE: WA
/ COUNTRY: USA
/ ZIP: 98102
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FASTSEQ for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/081,180
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 60/041,263
/ FILING DATE: March 19, 1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Lingenfelter, Susan E
/ REGISTRATION NUMBER: 41,156
/ REFERENCE/DOCKET NUMBER: 97-17C1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 206-442-6675
/ TELEFAX: 206-442-6678
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 178 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FRAGMENT TYPE: internal
/
US-09-081-180-2

Query Match          99.7%; Score 933; DB 3; Length 178;
Best Local Similarity 99.4%; Pred. No. 1.7e-102;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRRPEAMLLLTLLALGGPTWAGKMYGPGGKYFSTTDDYDHEITGLRVSGLLVKSQV 60
DB      1 MRRPEAMLLLTLLALGGPTWAGKMYGPGGKYFSTTDDYDHEITGLRVSGLLVKSQV 60

QY      61 VTLGSDMDVKLGALGSGNTQEVTLQPGEXYITVFVAFOAFLRGVWMTSKDRYFFFGKLDG 120
DB      61 VTLGSDMDVKLGALGSGNTQEVTLQPGEXYITVFVAFOAFLRGVWMTSKDRYFFFGKLDG 120

QY      121 QISSAYPSQEQGVLVGIYQYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSANSPVGR 178
DB      121 QISSAYPSQEQGVLVGIYQYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSANSPVGR 178

RESULT 3
US-09-040-786-2
/ Sequence 2, Application US/09040786
/ Patent No. 6025197
/ GENERAL INFORMATION:
/ APPLICANT: Sheppard, Paul O.
/ TITLE OF INVENTION: SECRETED SALIVARY ZSIG32
/ TITLE OF INVENTION: POLYPEPTIDES
/ NUMBER OF SEQUENCES: 38
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: ZymoGenetics
/ STREET: 1201 Eastlake Ave. E.
/ CITY: Seattle
/ STATE: WA
/ COUNTRY: USA
/ ZIP: 98102
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
```

```
/
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FASTSEQ for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/040,786
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 60/041,263
/ FILING DATE: March 19, 1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Lingenfelter, Susan E
/ REGISTRATION NUMBER: 41,156
/ REFERENCE/DOCKET NUMBER: 97-17
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 206-442-6675
/ TELEFAX: 206-442-6678
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 178 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FRAGMENT TYPE: internal
/
US-09-040-786-2

Query Match          99.7%; Score 933; DB 3; Length 178;
Best Local Similarity 99.4%; Pred. No. 1.7e-102;
Matches 177; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRRPEAMLLLTLLALGGPTWAGKMYGPGGKYFSTTDDYDHEITGLRVSGLLVKSQV 60
DB      1 MRRPEAMLLLTLLALGGPTWAGKMYGPGGKYFSTTDDYDHEITGLRVSGLLVKSQV 60

QY      61 VTLGSDMDVKLGALGSGNTQEVTLQPGEXYITVFVAFOAFLRGVWMTSKDRYFFFGKLDG 120
DB      61 VTLGSDMDVKLGALGSGNTQEVTLQPGEXYITVFVAFOAFLRGVWMTSKDRYFFFGKLDG 120

QY      121 QISSAYPSQEQGVLVGIYQYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSANSPVGR 178
DB      121 QISSAYPSQEQGVLVGIYQYOLLGKISIGFEMNYPLEBPTTEPPVNLTYSANSPVGR 178

RESULT 4
US-09-247-155-85
/ Sequence 85, Application US/09247155A
/ Patent No. 6312922
/ GENERAL INFORMATION:
/ APPLICANT: Dumas Milne Edwards, Jean-Baptiste
/ APPLICANT: Duclert, Aymeric
/ APPLICANT: Bougueleret, Lydie
/ TITLE OF INVENTION: Complementary DNAs
/ FILE REFERENCE: GENSET.021A
/ CURRENT APPLICATION NUMBER: US/09/247,155A
/ CURRENT FILING DATE: 1999-02-09
/ EARLIER APPLICATION NUMBER: 60/074,121
/ EARLIER FILING DATE: 1998-02-09
/ EARLIER APPLICATION NUMBER: 60/081,563
/ EARLIER FILING DATE: 1998-04-13
/ EARLIER APPLICATION NUMBER: 60/096,116
/ EARLIER FILING DATE: 1998-08-10
/ EARLIER APPLICATION NUMBER: 60/099,273
/ EARLIER FILING DATE: 1998-10-04
/ NUMBER OF SEQ ID NOS: 182
/ SOFTWARE: Patent.pm
/ SEQ ID NO 85
/ LENGTH: 178
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: SIGNAL
```

LOCATION: -22...-1
US-09-247-155-85

Query Match 99.3%; Score 929; DB 3; Length 178;
Best Local Similarity 98.9%; Pred. No. 5.1e-102;
Matches 176; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MHRPEALTLTLTALGPTWAGKMGPGGKYSTTEDDHEITGLRVSGLLVKSVQ 60
DB 1 MHRPEALTLTLTALGPTWAGKMGPGGKYSTTEDDHEITGLRVSGLLVKSVQ 60
QY 61 VKLGDSDVVKALGAGNTQEVTLQPGEXITKVFVAFQALRGVWMTSKDRYFYFGKL 120
DB 61 VKLGDSDVVKALGAGNTQEVTLQPGEXITKVFVAFQALRGVWMTSKDRYFYFGKL 120
QY 121 QISSAYPSQEGQVIVGIYQYQVLGKISIGFEMNYPLEPTTBPVNLTVSANSPPVR 178
DB 121 QISSAYPSQEGQVIVGIYQYQVLGKISIGFEMNYPLEPTTBPVNLTVSANSPPVR 178

RESULT 5
US-08-469-667-11
Sequence 11, Application US/08469667
Patent No. 5733748

GENERAL INFORMATION:
APPLICANT: Yu, Guo-liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,667
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 163 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-469-667-11

Query Match 21.3%; Score 199; DB 1; Length 163;
Best Local Similarity 35.2%; Pred. No. 1.9e-15;
Matches 56; Conservative 25; Mismatches 68; Indels 10; Gaps 5;

QY 6 AMLLTLTALG-----GPTWAGKMGPGGKXYS-TTEDYHEITGLRVSGLLVKS 58
DB 2 AMLALCASPSGNAIQARSSSYSGE-YGGGGRFSGNQLODPTALRKVRNTYTVIG-60
QY 59 VQVKLDSMDVVKALGAGNTQEVTLQPGEXITKVFVAFQALRGVWMTSKDRYFYFGKL 118
DB 61 LQRYGKMSDVGNGRGLDEIFLHPGESVIVQSGKMYLKKLVFVTDKGRYLSFGKD-120

QY 119 DQISSAYPSQEGQVIVGIYQYQVLGKISIGFEMN-YP 156
DB 121 SGTSPNAVPLHPMTVLRFRISGRSGSL-IDALIGHMDVYP 158

RESULT 6
US-09-224-110-11
Sequence 11, Application US/09224110
Patent No. 6337195

GENERAL INFORMATION:
APPLICANT: Yu, Guo-liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 163 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-224-110-11

Query Match 21.3%; Score 199; DB 3; Length 163;
Best Local Similarity 35.2%; Pred. No. 1.9e-15;
Matches 56; Conservative 25; Mismatches 68; Indels 10; Gaps 5;

QY 6 AMLLTLTALG-----GPTWAGKMGPGGKXYS-TTEDYHEITGLRVSGLLVKS 58
DB 2 AMLALCASPSGNAIQARSSSYSGE-YGGGGRFSGNQLODPTALRKVRNTYTVIG 60
QY 59 VQVKLDSMDVVKALGAGNTQEVTLQPGEXITKVFVAFQALRGVWMTSKDRYFYFGKL 118
DB 61 LQRYGKMSDVGNGRGLDEIFLHPGESVIVQSGKMYLKKLVFVTDKGRYLSFGKD 120
QY 119 DQISSAYPSQEGQVIVGIYQYQVLGKISIGFEMN-YP 156
DB 121 SGTSPNAVPLHPMTVLRFRISGRSGSL-IDALIGHMDVYP 158

RESULT 7
US-09-988-292A-11

Sequence 11, Application US/09988292A
Patent No. 6831152
GENERAL INFORMATION:
APPLICANT: Yu, Guo-liang
Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/988,292A
FILING DATE: 19-NO. 6831152-2001
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 163 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-988-292A-11

Query Match 21.3%; Score 199; DB 4; Length 163;
Best Local Similarity 35.2%; Pred. No. 1.9e-15;
Matches 56; Conservative 25; Mismatches 68; Indels 10; Gaps 5;

QY 6 AMLLLTLLLG-----GPTWAGKMYGPGGKYFS-TTEDYDHEITGLRYSVGLLVKS 58
| | | | | : | | | | | : | | | | | : | | | | | :
DB 2 ALLALLCASPSGNAIQARSSSYSGE-YGGGGGKRRFSHGNDLGPITALRVRVNTYYIVG 60
| | | | | : | | | | | : | | | | | : | | | | | :
QY 59 VQVKLGDSMDVKLGALGNTQEVLTQPGEYITKYFVAFOAFLRGVWMTSKDRYFFGKL 118
| | | | | : | | | | | : | | | | | : | | | | | :
DB 61 LQVRYGKWSMDYVGGKNDLBEIFLHPGESVIQVSGKMYLKLKLVFTDKGRYLSFGKD 120
| | | | | : | | | | | : | | | | | : | | | | | :
QY 119 DQOISSAYPSQEQVLVGIYGOYOLIGIKSIGFEMN-YP 156
| | | | | : | | | | | : | | | | | : | | | | | :
DB 121 SGTSPNAVPLHPNTVLRFTISGRSGSL-IDALGLHMDVYP 158
| | | | | : | | | | | : | | | | | : | | | | | :

RESULT 8
PCT-US95-07289-11
Sequence 11, Application PC/TUS9507289
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 163 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-07289-11

Query Match 21.3%; Score 199; DB 5; Length 163;
Best Local Similarity 35.2%; Pred. No. 1.9e-15;
Matches 56; Conservative 25; Mismatches 68; Indels 10; Gaps 5;

QY 6 AMLLLTLLLG-----GPTWAGKMYGPGGKYFS-TTEDYDHEITGLRYSVGLLVKS 58
| | | | | : | | | | | : | | | | | : | | | | | :
DB 2 ALLALLCASPSGNAIQARSSSYSGE-YGGGGGKRRFSHGNDLGPITALRVRVNTYYIVG 60
| | | | | : | | | | | : | | | | | : | | | | | :
QY 59 VQVKLGDSMDVKLGALGNTQEVLTQPGEYITKYFVAFOAFLRGVWMTSKDRYFFGKL 118
| | | | | : | | | | | : | | | | | : | | | | | :
DB 61 LQVRYGKWSMDYVGGKNDLBEIFLHPGESVIQVSGKMYLKLKLVFTDKGRYLSFGKD 120
| | | | | : | | | | | : | | | | | : | | | | | :
QY 119 DQOISSAYPSQEQVLVGIYGOYOLIGIKSIGFEMN-YP 156
| | | | | : | | | | | : | | | | | : | | | | | :
DB 121 SGTSPNAVPLHPNTVLRFTISGRSGSL-IDALGLHMDVYP 158
| | | | | : | | | | | : | | | | | : | | | | | :

RESULT 9
US-09-081-180-4
Sequence 4, Application US/09081180
Patent No. 6022847
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: SECRETED SALIVARY ZSIG32
TITLE OF INVENTION: POLYPEPTIDES
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics
STREET: 1201 Eastlake Ave. E.
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/081,180
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/041,263
FILING DATE: March 19, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Lingenfelter, Susan E
REGISTRATION NUMBER: 41,156
REFERENCE/DOCKET NUMBER: 97-1701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6675
TELEFAX: 206-442-6678
TELEX:

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 166 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-081-180-4

Query Match 20.6%; Score 192.5; DB 3; Length 166;
Best Local Similarity 30.9%; Pred. No. 1.1e-14;
Matches 47; Conservative 29; Mismatches 73; Indels 3; Gaps 2;

QY 5 EAMLLITLALGPT--WAGKMYGPGGKGFSTTDEYDHEITGLRVSGLLVKSVOVK 62
DB 6 EAMLLITLALGPT--WAGKMYGPGGKGFSTTDEYDHEITGLRVSGLLVKSVOVK 65
QY 63 LGSDWVKLALGNTQEVTLQPGEVITTKVFAFQALRGVWMTSKDRYFYGKLDGQ- 121
DB 66 FGNMWSQEGYSSGRABIEVKLPDETVLGFSGSFYIFMHQIITTSQPRELIIGPLTGRY 125
QY 122 ISSAYPSQEGQVAVGIYQYQLGIKSGFEW 153
DB 126 VYTSYPENPHVFRIGICGYVTGGLKGMRYLM 157

RESULT 10
US-09-040-786-4
Sequence 4, Application US/09040786
Patent No. 6025197
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: SECRETED SALIVARY ZSIG32
TITLE OF INVENTION: POLYPEPTIDES
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave. E.
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98102

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/040.786
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/041,263
FILING DATE: March 19, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Lingenfelter, Susan E
REGISTRATION NUMBER: 41,156
REFERENCE/DOCKET NUMBER: 97-17
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6675
TELEFAX: 206-442-6678
TELEX:

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 166 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-040-786-4

Query Match 20.6%; Score 192.5; DB 3; Length 166;

Best Local Similarity 30.9%; Pred. No. 1.1e-14;
Matches 47; Conservative 29; Mismatches 73; Indels 3; Gaps 2;

QY 5 EAMLLITLALGPT--WAGKMYGPGGKGFSTTDEYDHEITGLRVSGLLVKSVOVK 62
DB 6 EAMLLITLALGPT--WAGKMYGPGGKGFSTTDEYDHEITGLRVSGLLVKSVOVK 65
QY 63 LGSDWVKLALGNTQEVTLQPGEVITTKVFAFQALRGVWMTSKDRYFYGKLDGQ- 121
DB 66 FGNMWSQEGYSSGRABIEVKLPDETVLGFSGSFYIFMHQIITTSQPRELIIGPLTGRY 125
QY 122 ISSAYPSQEGQVAVGIYQYQLGIKSGFEW 153
DB 126 VYTSYPENPHVFRIGICGYVTGGLKGMRYLM 157

RESULT 11
US-09-280-839-3
Sequence 3, Application US/09280839
Patent No. 6365369
GENERAL INFORMATION:
APPLICANT: Endress, Gregory A.
APPLICANT: Rosen, Craig A.
TITLE OF INVENTION: Prostate Specific Secreted Protein
FILE REFERENCE: PR457
CURRENT APPLICATION NUMBER: US/09/280.839
CURRENT FILING DATE: 1999-03-30
EARLIER APPLICATION NUMBER: 60/080,311
EARLIER FILING DATE: 1998-04-01
EARLIER APPLICATION NUMBER: 60/080,898
EARLIER FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 159
TYPE: PRT
ORGANISM: Homo sapiens
US-09-280-839-3

Query Match 19.6%; Score 183.5; DB 3; Length 159;
Best Local Similarity 30.0%; Pred. No. 1.3e-13;
Matches 45; Conservative 29; Mismatches 73; Indels 3; Gaps 2;

QY 7 MLLITLALGPT--WAGKMYGPGGKGFSTTDEYDHEITGLRVSGLLVKSVOVK 64
DB 1 MLLITLALGPT--WAGKMYGPGGKGFSTTDEYDHEITGLRVSGLLVKSVOVK 60
QY 65 DSDWVKLALGNTQEVTLQPGEVITTKVFAFQALRGVWMTSKDRYFYGKLDGQ-IS 123
DB 61 NNWSQEGYSSGRABIEVKLPDETVLGFSGSFYIFMHQIITTSQPRELIIGPLTGRY 120
QY 124 SAYPSQEGQVAVGIYQYQLGIKSGFEW 153
DB 121 TSYPENPHVFRIGICGYVTGGLKGMRYLM 150

RESULT 12
US-09-081-180-3
Sequence 3, Application US/09081180
Patent No. 6023847
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: SECRETED SALIVARY ZSIG32
TITLE OF INVENTION: POLYPEPTIDES
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zymogenetics
STREET: 1201 Eastlake Ave. E.
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98102

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,180
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/041,263
; FILING DATE: March 19, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Lingenfelter, Susan E
; REGISTRATION NUMBER: 41,156
; REFERENCE/DOCKET NUMBER: 97-17C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6675
; TELEFAX: 206-442-6678
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 199 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-180-3
```

```

Query Match      17.1%; Score 160; DB 3; Length 199;
Best Local Similarity 31.4%; Pred. No. 1.1e-10;
Matches 48; Conservative 26; Mismatches 69; Indels 10; Gaps 5;
```

```

QY 7 MLILTLALGGPTW-AGKMYGPGGKYFSTTDDYDHEITGLRVSVGLL-LVKSVOYKLG 64
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 1 MLILTLALFLASPTCAQNVNLGNAAKRYFYQGEDGQLKMKRIFLSVFKFKGFOLQFG 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 65 DSMDVKLGALGNGQEVTLQPGCEYITKVFVAFQAFIRGVWMTSKDRYFYFGKLDGQISS 124
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 61 SNMTDVYTRSDNFDIFLLEDGEHVIKVGSAVICLSLTFTTNKGRVATFVRRR--- 117
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 125 AVPSQEG---QVLVGIYQYQL-LGIKSIQFEW 153
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 118 -YFSDTGGSDKHLYTVNGMHAPGLCVRGIGFEK 149
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
```

```

RESULT 13
US-09-040-786-3
; Sequence 3, Application US/09040786
; Patent No. 6025197
; GENERAL INFORMATION:
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG32
; TITLE OF INVENTION: POLYPEPTIDES
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics
; STREET: 1201 Baslake Ave. E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/040,786
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
```

```

; APPLICATION NUMBER: 60/041,263
; FILING DATE: March 19, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Lingenfelter, Susan E
; REGISTRATION NUMBER: 41,156
; REFERENCE/DOCKET NUMBER: 97-17
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6675
; TELEFAX: 206-442-6678
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 199 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-040-786-3
```

```

Query Match      17.1%; Score 160; DB 3; Length 199;
Best Local Similarity 31.4%; Pred. No. 1.1e-10;
Matches 48; Conservative 26; Mismatches 69; Indels 10; Gaps 5;
```

```

QY 7 MLILTLALGGPTW-AGKMYGPGGKYFSTTDDYDHEITGLRVSVGLL-LVKSVOYKLG 64
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 1 MLILTLALFLASPTCAQNVNLGNAAKRYFYQGEDGQLKMKRIFLSVFKFKGFOLQFG 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 65 DSMDVKLGALGNGQEVTLQPGCEYITKVFVAFQAFIRGVWMTSKDRYFYFGKLDGQISS 124
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 61 SNMTDVYTRSDNFDIFLLEDGEHVIKVGSAVICLSLTFTTNKGRVATFVRRR--- 117
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 125 AVPSQEG---QVLVGIYQYQL-LGIKSIQFEW 153
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 118 -YFSDTGGSDKHLYTVNGMHAPGLCVRGIGFEK 149
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
```

```

RESULT 14
US-09-081-180-5
; Sequence 5, Application US/09081180
; Patent No. 6022847
; GENERAL INFORMATION:
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: SECRETED SALIVARY ZSIG32
; TITLE OF INVENTION: POLYPEPTIDES
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics
; STREET: 1201 Baslake Ave. E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,180
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/041,263
; FILING DATE: March 19, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Lingenfelter, Susan E
; REGISTRATION NUMBER: 41,156
; REFERENCE/DOCKET NUMBER: 97-17C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6675
; TELEFAX: 206-442-6678
; TELEX:
```


This Page Blank (usp10)